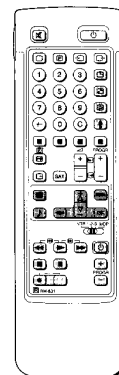
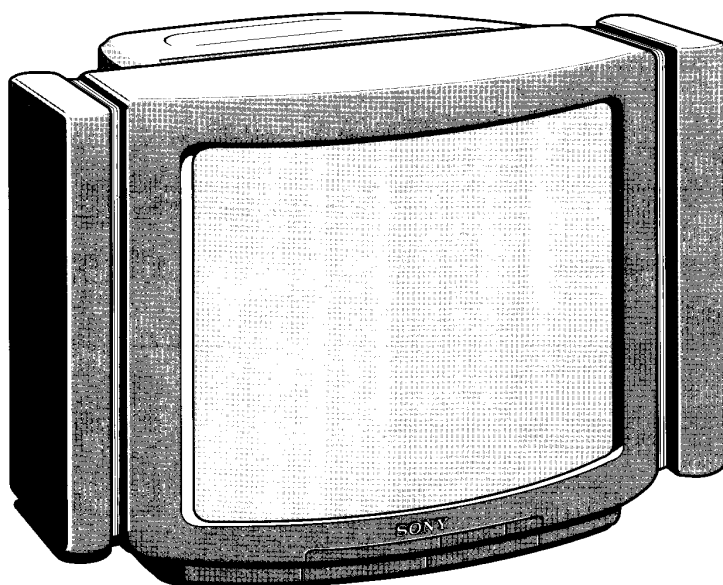


# SERVICE MANUAL

# AE-2F CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.	MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-E2561A	RM-831	Italian	SCC-G76D-A	KV-E2563E	RM-831	Spanish	SCC-G78D-A
KV-E2563B	RM-831	French	SCC-G75G-A	KV-E2561K	RM-831	OIRT	SCC-G95C-A
KV-E2561D	RM-831	AEP	SCC-G72F-A				



TRINITRON® COLOUR TV  
**SONY®**

## Specifications

ITEM MODEL	Television system	Stereo system	Channel coverage	Color system
Italian	B/G/H,D/K	GERMAN Stereo	ITALIA VHF:A-H2 (C) UHF:21-69 PAL B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10,U1-U10 D/K VHF:R01-R12 UHF:R21-R69	PAL,SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
French	B/G/H,D/K L, I	GERMAN Stereo	L VHF:F02-F10 UHF:F21-F69 CABLE:B-Q B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10,U1-U10 ITALIA VHF:A-H2 (C) UHF:21-69 D/K VHF:R01-R12 UHF:R21-R69	PAL,SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
AEP	B/G/H,D/K	GERMAN Stereo	PAL B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10,U1-U10 ITALIA VHA:A-H12 (C) UHF:21-69 D/K VHF:R01-R12 UHF:R21-R69	PAL,SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
Spanish	B/G/H,D/K	GERMAN/NICAM Stereo	PAL B/G VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10,U1-U10 ITALIA VHF:A-H2 (C) UHF:21-69 D/K VHF:R01-R12 UHF:R21-R69	PAL,SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
OIRT	B/G/H, D/K	GERMAN Stereo	B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 D/K VHF:R1-R12 UHF:R21-R60	PAL, SECAM NTSC 4.43, NTSC 3.58 (VIDEO IN)

MODEL	Italian	French	AEP	Spanish	OIRT
Power consumption	140 W	143 Wh	155 W	155 W	155 W

Picture tube Super Trinitron  
Approx. 72 cm (29 inches)  
(Approx. 68 cm picture measured diagonally)  
110° -deflection

## [REAR]

⊖ 1 21-pin Euro connector  
(CENELEC standard)  
Inputs for audio and video signals

- inputs for RGB
- outputs of TV video and audio signals

⊖ 2/⊖ 2 21-pin Euro connector

- inputs for audio and video signals
- inputs for S video
- outputs for audio and video signals (selectable)

⊖ 4/⊖ 4 21-pin Euro connector

- inputs for audio and video signals
- inputs for S video
- outputs for audio and video signals (monitor out)

⊖ 2, ⊖ 4 S video inputs

- 4 pin DIN

⊖ Audio inputs (L, R) -phono jacks

⊖ S video output - 4 pin DIN

⊖ Audio outputs - phono jacks

⊖ Audio outputs (variable) - phono jacks

External speaker terminals: 2 pin

Woofer terminal : 2-pin

## [FRONT]

⊖ 3 Video input-phono jack  
⊖ Audio input-phono jacks  
⊖ 3 S video input 4-pin DIN  
□ Headphone jack: Stereo minijack

## Sound output

2x15W Side Speakers (RMS)  
25W Woofer (RMS)  
2x35W Side Speaker (Music)

## Dimensions incl.speakers

Approx. 802x624x525 mm

## Weight

Approx. 55.0 kg

## Supplied accessories

RM-831 Remote Commander (1)  
RM-860 Roller Commander (1)  
IEC designation R6 batteries (2)  
NICAM, FASTEXT  
Programmable commander  
NICAM/GERMAN  
FASTTEXT

## Other features

## [RM-831]

## Remote control system

infrared control

## Power requirements

3V dc  
2 batteries IEC designation  
R6 (size AA)  
Approx. 65x222x21 mm (w/h/d)  
Approx. 157g (Not including Batteries)

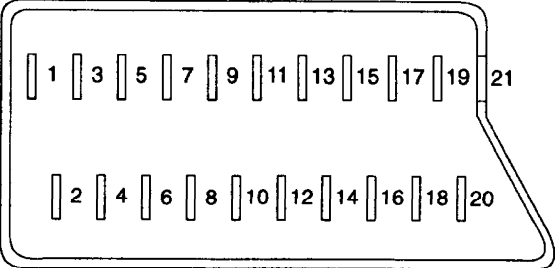
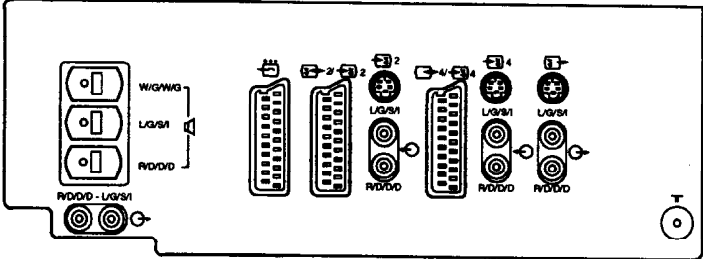
## Dimensions

## Weight

Design and specifications are subject to change without notice.

Model name Item	KV-E2961A	KV-E2961B	KV-E2961D	KV-E2963E	KV-E2961K
Pal Comb	ON	ON	ON	ON	ON
PIP	ON	ON	ON	ON	ON
RGB Priority	ON	ON	OFF	OFF	OFF
Woofer Box	ON	ON	ON	ON	ON
Scart 1	ON	ON	ON	ON	ON
Scart 2	ON	ON	ON	ON	ON
Front in (3)	ON	ON	ON	ON	ON
Scart 4	ON	ON	ON	ON	ON
Dyn. Convergence	OFF	OFF	OFF	OFF	OFF
Projector	OFF	OFF	OFF	OFF	OFF
AKB in 16:9 mode	ON	ON	ON	ON	ON
Norm B/G	ON	ON	ON	ON	OFF
Norm I	OFF	ON	OFF	OFF	ON
Norm D/K	ON	ON	ON	ON	OFF
Norm AUS	OFF	OFF	OFF	OFF	OFF
Norm L	OFF	ON	OFF	OFF	OFF
Norm SAT	OFF	OFF	OFF	OFF	OFF
Norm M	OFF	OFF	OFF	OFF	OFF
Language Preset	Italiano	Francais	Deutsch	None	English

21 pin connector (G1 G2 / G4)



Pin No	1	2	Signal	Signal level
1	<input type="radio"/>	<input type="radio"/>	Audio output B (right)	Standard level: 0.5Vrms Output impedance:less than 1kohm*
2	<input type="radio"/>	<input type="radio"/>	Audio input B (right)	Standard level:0.5Vrms Input impedance:More than 10kohms*
3	<input type="radio"/>	<input type="radio"/>	Audio output A (left)	Standard level:0.5Vrms Output impedance:less than 1kohm*
4	<input type="radio"/>	<input type="radio"/>	Ground (audio)	
5	<input type="radio"/>	<input type="radio"/>	Ground (blue)	
6	<input type="radio"/>	<input type="radio"/>	Audio input A (left)	Standard level:0.5Vrms Input impedance:More than 10kohms*
7	<input type="radio"/>	<input checked="" type="radio"/>	Blue input	0.7V±3dB, 75ohms, positive
8	<input type="radio"/>	<input type="radio"/>	Function select (AV control)	High state (9.5—12V):Part mode Low state (0—2V):TV mode Input impedance:More than 10kohms Input capacitance:Less than 2nF
9	<input type="radio"/>	<input type="radio"/>	Ground (green)	
10	<input type="radio"/>	<input type="radio"/>	Open	
11	<input type="radio"/>	<input checked="" type="radio"/>	Green	Green signal:0.7V±3dB, 75ohms, positive
12	<input type="radio"/>	<input type="radio"/>	Open	
13	<input type="radio"/>	<input type="radio"/>	Ground(red)	
14	<input type="radio"/>	<input type="radio"/>	Ground (blanking)	
15	<input type="radio"/>	<input type="radio"/>	Red input	0.7V±3dB, 75ohms, positive
	<input type="radio"/>	<input type="radio"/>	(S signal) croma input	0.3V±3dB, 75ohms, positive
16	<input type="radio"/>	<input checked="" type="radio"/>	Blanking input (Y's signal)	High state (1—3V) Low state (0—0.4V) Input impedance:75ohms
17	<input type="radio"/>	<input type="radio"/>	Ground (video output)	
18	<input type="radio"/>	<input type="radio"/>	Ground (video input)	
19	<input type="radio"/>	<input type="radio"/>	Video output	1V±3dB, 75ohms, positive Sync:0.3V(—3, +10dB)
20	<input type="radio"/>	<input type="radio"/>	Video input	1V±3dB, 75ohms, positive Sync:0.3V(—3, +10dB)
	<input type="radio"/>	<input type="radio"/>	Video Input/Y (S signal)	1V±3dB, 75ohms, positive Sync:0.3V(—3, +10dB)
21	<input type="radio"/>	<input type="radio"/>	Common ground (plug, shield)	

☐ connected

☒ unconnected (open)

\* At 20 Hz—20kHz

## TABLE OF CONTENTS

Section	Title	Page	Section	Title	Page
1. GENERAL			5. DIAGRAMS		
	Overview .....	6	5-1. Block Diagrams (1) .....	35	
	Step 1 Preparation .....	7	Block Diagrams (2) .....	37	
	Step 2 Connection .....	7	Block Diagrams (3) .....	39	
	Step 3 Tuning in to TV stations .....	7	Block Diagrams (4) .....	41	
	Additional Presetting Functions .....	9	Block Diagrams (5) .....	43	
	Watching the TV .....	10	Block Diagrams (6) .....	44	
	Adjusting and Setting the TV using the Menu .....	11	Block Diagrams (7) .....	45	
	PIP (Picture in Picture) .....	13	Block Diagrams (8) .....	47	
	Teletext .....	14	Block Diagrams (9) .....	49	
	Operating Optional Equipment .....	16	Block Diagrams (10) .....	51	
2. DISASSEMBLY			Block Diagrams (11) .....	52	
2-1. Rear Cover Removal .....	17		5-2. Circuit Boards Location .....	54	
2-2. Chassis Assy Removal .....	17		5-3. Schematic Diagrams and		
2-3. Service Position .....	18		Printed Wiring Boards .....	54	
2-4. Extension Board .....	18		• A Board .....	55	
2-5. PCB supporter and Shield Case Removal .....	19		• J Board .....	64	
2-6. J Board Removal .....	19		• A2 Board .....	71	
2-7. G and A2 Boards Removal .....	19		• D Board .....	76	
2-8-1. Wire Dressing .....	20		• B Board .....	81	
2-8-2. Wire Dressing .....	20		• Q Board .....	87	
2-9. Picture Tube Removal .....	21		• G Board .....	94	
3. SET-UP ADJUSTMENTS			• C Board .....	100	
3-1. Beam Landing .....	22		• M3 Board .....	104	
3-2. Convergence .....	23		• D6 Board .....	108	
3-3. Focus .....	25		• VM Board .....	109	
3-4. White Balance .....	25		• E2 Board .....	112	
4. CIRCUIT ADJUSTMENTS			• F1 Board .....	112	
4-1. Electrical Adjustments .....	26		• D2 Board .....	114	
4-2. Volume Electrical Adjustments .....	31		• D7 Board .....	117	
4-3. Test Mode 2 : .....	32		• H1 Board .....	117	
4-4. Error Message .....	34		• H2 Board .....	117	
4-5. Error II C Bus Diagnosis System in AE-2F Chassis .....	34		• IFH-389 Board .....	119	
			• IFH-389F Board .....	121	
			5-4. Schematic Diagram of Tuner .....	124	
			5-5. Semiconductors .....	125	
			6. EXPLODED VIEWS		
			6-1. Chassis .....	128	
			6-2. Picture Tube .....	129	
			6-3. Speaker .....	130	
			7. ELECTRICAL PARTS LIST .....	131	


## CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

## WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.  
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

## SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND, IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.


## ATTENTION

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

## ATTENTION !!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHASSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISE LORS DE TOUT DEPANNAGE. LE CHASSIS DE CE RECEPTEUR EST DIRECTEMENT RACCORDE A L'ALIMENTATION SECTEUR.

## ATTENTION AUX COMPOSANTS RELATIFS A LA SECURITE!!

LES COMPOSANTS IDENTIFIES PAR UNE TRAME ET PAR UNE MARQUE  SUR LES VUES EXPLOSEES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SECURITE DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMERO DE PIECE EST INDIQUE DANS LE PRESENT MANUEL OU DANS DES SUPPLEMENTS PUBLIES PAR SONY.

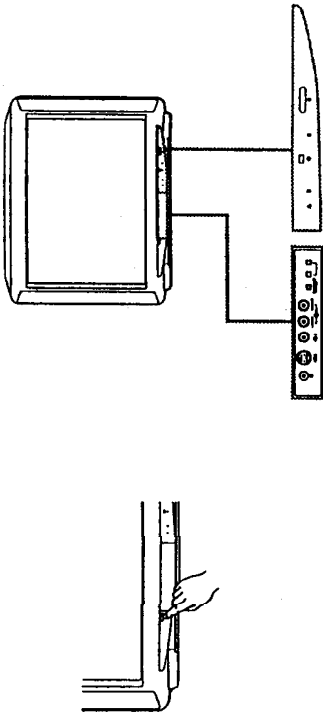
# SECTION 1 GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

## Overview

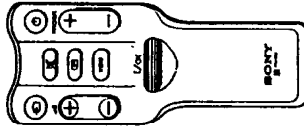
This section briefly describes the buttons and controls on the TV set and on the Remote Commander. For more information, refer to the pages given next to each description.

### TV set-front



Symbol	Name	Refer to page
h	Main power switch	13
i	Standby indicator	13
A-g -B	Stereo A/B indicators	15
J	Headphones jack	23
y 3, z 3, p 3,	Input jacks (S video/video/audio)	23
P-1 → z	Function selector (Programme/volume/input)	13
→+	Adjustment buttons for function selector	13

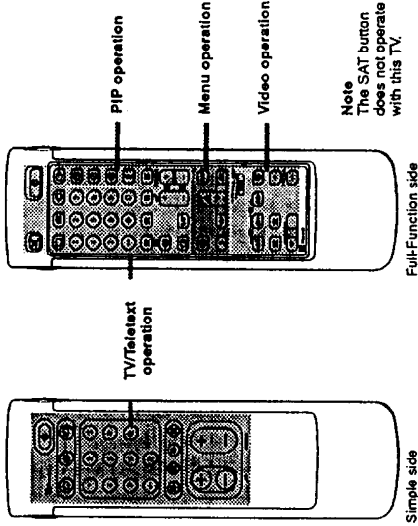
### Roller Commander RM-860



#### TV/Teletext operation

Symbol	Name	Refer to page
u	Muting on/off button	14
i	Standby button	13
x	TV power on/TV mode selector button	13
A	Teletext button	14
z	Input mode selector	14
h	Output mode selector	24
1, 2, 3, 4, 5, 6, 7, 8, 9 and 0	Number buttons	13
→...	Double-digit entering button	13
C	Direct channel entering button	12
1 →+	Volume control button	13
PROGR →+	Programme selectors	13
q r	Teletext page access buttons	20
n	Picture adjustment button	15
o	Sound adjustment button	15
G	On-screen display button	14
a	Teletext hold button	20
o	Time display button	14
■ ■ ■ ■ ■	Fastest buttons	20

### Remote commander RM-831



#### PIP (Picture-in-Picture) operation

Symbol	Name	Refer to page
o	PIP on/off button	18
↑	PIP source selector	18
n	Swap button	18
m	PIP position changing button	18

#### Menu operation

Symbol	Name	Refer to page
MENU	Menu on/off button	7
o →/s-	Select buttons	7
OK	OK (confirming) button	7
←	Back button	7
y/OK	Roller Commander: Roller to select/confirm menu functions	7

#### Video operation

Symbol	Name	Refer to page
VTR 1/2/3,	Video equipment selector	25
MCP	Video equipment operation buttons	25
q q q α α α	Video equipment operation buttons	25
■ ■ ■	PROGR →+	25

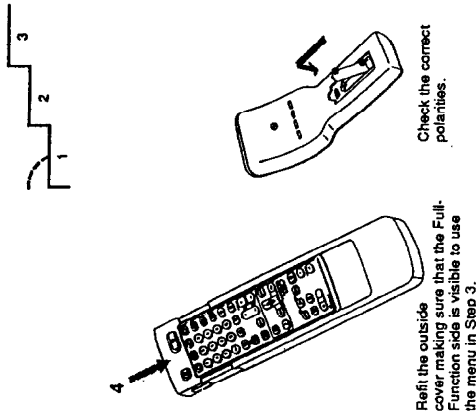
Note  
The SAT button does not operate with this TV.

Full-Function side

Simple side

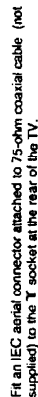
# Getting Started

## Insert the batteries into the Remote Commanders



Refit the outside cover making sure that the Full-Function side is visible to use the menu in Step 3.

## Connect the aerial



***Before you begin***

Check that the Full-Function side of the Remote Commander is visible.

In addition to your double-sided Remote Commander your TV set is supplied with an extra Remote commander. This Roller Commander works with a roller for convenient, fast-access operation of the Menu functions. Move the roller upwards to move the cursor upwards, move the roller downwards to move the cursor downwards, press the roller to confirm a selection. The other buttons on this commander have the same function as the respective buttons on the double-sided Remote Commander.

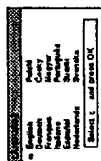


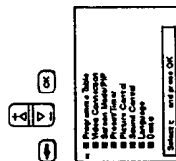
Fig. 1.

- 1 Depress h on the TV. The TV will switch on. If the standby indicator on the TV is lit, press x or a number button on the Remote Commander.
- 2 Press the MENU button.



Press the **←** button.  
The main menu appears. (See Fig. 2.)

Now, choose one of the following methods  
» **Preset Channels Automatically**«



**Fig. 2**

With this method, you can preset all receivable channels at once.

To stop automatic channel presetting Press the **PRESET/TIMER** button on the Remote Commander.

**Notes**  
 • After presetting the channels automatically, you can check which channels are stored on which programme positions.  
 • For details, see the **Programme Table** on page 17.

• You can sort the programme positions to have them appear on screen in the order you like. For details, see **Sorting Programme Positions** on page 10.

**Note**  
 Programme names are automatically taken from Teletext if available. If not, please refer to page 10 for details on the 'Station name' for more information.

Use this method if there are only a few channels in your area to preset or if you want to preset channels one by one. You may also allocate programme numbers to video input sources.

If you have made a mistake  
 Press **←** to go back to the previous position.  
 Press **→** to go back to the normal TV picture.  
 Press **MENU**.

### 3 Preset channels automatically

- 1 Select **Preset/Timer** with **o + or s -** and press **OK**. The **PRESET/TIMER** menu appears. (See Fig. 3.)
- 2 Select **Auto Programme** with **o + or s -** and press **OK**. The **AUTO PROGRAMME** menu appears. (See Fig. 4.)
- 3 Press **OK** repeatedly until the first element of the **PROG-** number is highlighted.
- 4 Select the programme (number button) from which you want to start presetting. Select the first element of the double-digit number with **o + or s -** or the number buttons (e.g. For **04**, select **0**, then **4**) and press **OK**. The second element of **PROG-** will be highlighted.
- 5 Select the second element of the double-digit number with **o + or s -** or the number buttons (e.g. For **04**, select **4**) here) (See Fig. 5.) and press **OK**.
- 6 Press **OK**. The automatic channel presetting starts. When presetting is finished, the preset menu reappears. All available channels are now stored on successive number buttons.



Fig. 3.

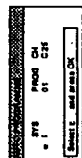


Fig. 4.



Fig. 5.

### 3 Preset channels manually

- 1 Select **Preset/Timer** with **o + or s -** and press **OK**. The **PRESET/TIMER** menu appears. (See Fig. 6.)
- 2 Select **Manual Programme Preset** with **o + or s -** and press **OK**. The **MANUAL PROGRAMME PRESET** menu appears. (See Fig. 7.)

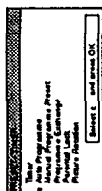


Fig. 6.

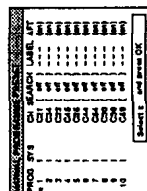


Fig. 7.

- 3 Using **o + or s -**, select the programme position (number button) to which you want to preset a channel, and press **OK**.
  - 4 Select if necessary, a video input source (EXT) with **o + or s -**.
  - 5 Then press **OK**. The CH position will be highlighted. (See Fig. 8.)
  - 6 Using **o + or s -**, select C (to preset a regular channel) or F (to tune in by frequency) and press **OK**. The first element of the **CH-** number will be highlighted. If you have selected **EXT** in step 4, select the video input source with **o + or s -**. (See Fig. 9.)
- There are two ways to preset channels. If you know the channel number, go to step **7-Manual**, or
- if you don't know the channel number, go to step **7-Search**.



Fig. 8.



Fig. 9.

#### 7 Manual

- a Select the first element of the **CH-** number with **o + or s -** or the number buttons and press **OK**. The second element of the **CH-** number will be highlighted.
- b Select the second element of the number with **o + or s -** or the number buttons. The selected number appears. (See Fig. 10.)
- c Press **OK**. The **SEARCH-** position is highlighted and the selected channel is now stored. (See Fig. 11.)
- d Press **OK** until the cursor appears by the next programme position.
- e Repeat steps 3 to 7 to preset other channels.



Fig. 10.



Fig. 11.

#### 7 Search

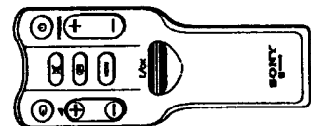
- a Press **OK** repeatedly until the colour of the **SEARCH** position changes.
- b Start searching for the channel with **o + (up)** or **s - (down)**. The CH number changes colour. (See Fig. 12.) The CH number starts counting up or downwards. When a channel is found, it stops. (See Fig. 13.)
- c Press **OK** if you want to store this channel. If not, press **o + or s -** to continue channel searching.
- d Press **OK** until the cursor appears by the next programme position.
- e Repeat steps 3 to 7 to preset other channels.



Fig. 12.



Fig. 13.



## Additional Presetting Functions

This section shows you additional presetting functions such as sorting or skipping programme positions, captioning a station name, manual fine-tuning, and using the parental lock.

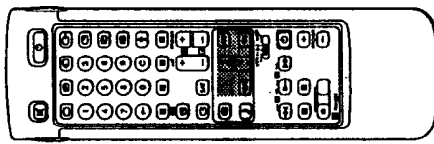
### Before you begin

- Check that the Full Function side of the Remote Commander is visible.
- Locate the Menu operation buttons.

## Sorting Programme Positions

With this function, you can sort the programme positions to a preferable order.

- 1 Press MENU to display the main menu.
- 2 Select «Preset/Timer» with o + or s - and press OK. The PRESET/TIMER menu appears.
- 3 Select «Programme Sorting» with o + or s - and press OK. The PROGRAMME SORTING menu appears. (See Fig. 14.)
- 4 Using o + or s -, select the programme position which you want to move to another and press OK. The colour of the selected position changes. (See Fig. 15.)
- 5 Using o + or s -, select the programme position to which you want to move the channel of the programme position selected in step 4 and press OK. Now the programme positions have been sorted. (See Fig. 16.)
- 6 Repeat steps 4 and 5 to sort other programme positions.



## How to adjust the Picture Rotation

If due to the earth magnetism the picture «clants», you can use the function «Picture Rotation» to readjust the picture.

- 1 Press MENU to display the main menu.
- 2 Select «Preset/Timer» with o + or s - and press OK. The PRESET/TIMER menu appears.
- 3 Select «Picture Rotation» with o + or s - and press OK. The PICTURE ROTATION menu appears. (See Fig. 17.)
- 4 Press OK. Adjust the picture rotation with o + or s - until you have an upright picture. As you press the cursor buttons, the range changes from -2 to +2.
- 5 Press OK to store the adjustment.

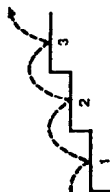


For higher programme positions the display scrolls automatically.

If you have made a mistake Press - to go back to the previous position.

To go back to main menu

Keep pressing - . To go back to the normal TV picture Press MENU.



PROG	CH	LABEL	PROG	CH	LABEL
1	CH1	ITV	10	CH10	---
2	CH2	---	11	CH11	---
3	CH3	---	12	CH12	---
4	CH4	---	13	CH13	---
5	CH5	---	14	CH14	---
6	CH6	---	15	CH15	---
7	CH7	---	16	CH16	---
8	CH8	---	17	CH17	---
9	CH9	---	18	CH18	---

Fig. 14.

PROG	CH	LABEL	PROG	CH	LABEL
1	CH1	ITV	10	CH10	---
2	CH2	---	11	CH11	---
3	CH3	---	12	CH12	---
4	CH4	---	13	CH13	---
5	CH5	---	14	CH14	---
6	CH6	---	15	CH15	---
7	CH7	---	16	CH16	---
8	CH8	---	17	CH17	---
9	CH9	---	18	CH18	---

Fig. 15.

PROG	CH	LABEL	PROG	CH	LABEL
1	CH1	ITV	10	CH10	---
2	CH2	---	11	CH11	---
3	CH3	---	12	CH12	---
4	CH4	---	13	CH13	---
5	CH5	---	14	CH14	---
6	CH6	---	15	CH15	---
7	CH7	---	16	CH16	---
8	CH8	---	17	CH17	---
9	CH9	---	18	CH18	---

Fig. 16.

PROG	CH	LABEL	PROG	CH	LABEL
1	CH1	ITV	10	CH10	---
2	CH2	---	11	CH11	---
3	CH3	---	12	CH12	---
4	CH4	---	13	CH13	---
5	CH5	---	14	CH14	---
6	CH6	---	15	CH15	---
7	CH7	---	16	CH16	---
8	CH8	---	17	CH17	---
9	CH9	---	18	CH18	---

Fig. 17.

## Skipping Programme Positions

You can skip unused programme positions when selecting programmes with the PROGR +/- buttons. However, the skipped programmes may still be called up when you use the number buttons.

- 1 Press MENU to display the main menu.
- 2 Select «Preset/Timer» with o + or s - and press OK. The PRESET/TIMER menu appears.
- 3 Select «Manual Programme Preset» with o + or s - and press OK. The MANUAL PROGRAMME PRESET menu appears. (See Fig. 18.)
- 4 Using o + or s -, select the programme position which you want to skip and press OK. The «SYS» position changes colour.
- 5 Press o + or s - until «---» appears in the SYSTEM position. (See Fig. 19.)
- 6 Press OK. (See Fig. 20.) When you select programmes using the PROGR +/- buttons, the programme position will be skipped.
- 7 Repeat steps 4 to 6 to skip other programme positions.



PROG	CH	LABEL	PROG	CH	LABEL
1	CH1	ITV	10	CH10	---
2	CH2	---	11	CH11	---
3	CH3	---	12	CH12	---
4	CH4	---	13	CH13	---
5	CH5	---	14	CH14	---
6	CH6	---	15	CH15	---
7	CH7	---	16	CH16	---
8	CH8	---	17	CH17	---
9	CH9	---	18	CH18	---

Fig. 18.

PROG	CH	LABEL	PROG	CH	LABEL
1	CH1	ITV	10	CH10	---
2	CH2	---	11	CH11	---
3	CH3	---	12	CH12	---
4	CH4	---	13	CH13	---
5	CH5	---	14	CH14	---
6	CH6	---	15	CH15	---
7	CH7	---	16	CH16	---
8	CH8	---	17	CH17	---
9	CH9	---	18	CH18	---

Fig. 19.

PROG	CH	LABEL	PROG	CH	LABEL
1	CH1	ITV	10	CH10	---
2	CH2	---	11	CH11	---
3	CH3	---	12	CH12	---
4	CH4	---	13	CH13	---
5	CH5	---	14	CH14	---
6	CH6	---	15	CH15	---
7	CH7	---	16	CH16	---
8	CH8	---	17	CH17	---
9	CH9	---	18	CH18	---

Fig. 20.

## Captioning a Station Name

Programme names are usually automatically taken from Teletext if available. You can also «name» a channel or an input video source using up to five characters (letters or numbers) to be displayed on the TV screen (e.g. BBC1). Using this function, you can easily identify which channel or video source you are watching.

- 1 Press MENU to display the main menu.
- 2 Select «Preset» with o + or s - and press OK. The PRESET menu appears.
- 3 Select «Manual Programme Preset» with o + or s - and press OK. The MANUAL PROGRAMME PRESET menu appears. (See Fig. 21.)
- 4 Using o + or s -, select the programme position you want to caption and press OK repeatedly until the first element of the LABEL position is highlighted.
- 5 Select a letter or number with o + or s - and press OK. The next element will be highlighted. Select other characters in the same way. If you want to leave an element blank, select - and press OK. (See Fig. 22.)
- 6 After selecting all the characters, press OK repeatedly until the cursor appears by the next programme position (at the left margin). Now the caption you chose is stored. (See Fig. 23.)
- 7 Repeat steps 5 and 6 to caption names for other channels.

PROG	CH	LABEL	PROG	CH	LABEL
1	CH1	ITV	10	CH10	---
2	CH2	---	11	CH11	---
3	CH3	---	12	CH12	---
4	CH4	---	13	CH13	---
5	CH5	---	14	CH14	---
6	CH6	---	15	CH15	---
7	CH7	---	16	CH16	---
8	CH8	---	17	CH17	---
9	CH9	---	18	CH18	---

Fig. 21.

PROG	CH	LABEL	PROG	CH	LABEL
1	CH1	ITV	10	CH10	---
2	CH2	---	11	CH11	---
3	CH3	---	12	CH12	---
4	CH4	---	13	CH13	---
5	CH5	---	14	CH14	---
6	CH6	---	15	CH15	---
7	CH7	---	16	CH16	---
8	CH8	---	17	CH17	---
9	CH9	---	18	CH18	---

Fig. 22.

PROG	CH	LABEL	PROG	CH	LABEL
1	CH1	ITV	10	CH10	---
2	CH2	---	11	CH11	---
3	CH3	---	12	CH12	---
4	CH4	---	13	CH13	---
5	CH5	---	14	CH14	---
6	CH6	---	15	CH15	---
7	CH7	---	16	CH16	---
8	CH8	---	17	CH17	---
9	CH9	---	18	CH18	---

Fig. 23.

# Operating Instructions

## Manual Fine-Tuning

Normally, the AFT (automatic fine-tuning) is already operating. However, if the picture is distorted, you can use the manual fine tuning function to obtain better picture reception.

- 1 Press MENU to display the main menu.
- 2 Select +Preset/Timer with o + or s - and press OK. The PRESET/TIMER menu appears.
- 3 Select +Manual Programme Preset with o + or s - and press OK. The MANUAL PROGRAMME PRESET menu appears. (See Fig. 24.)
- 4 Using o + or s -, select the programme position corresponding to the channel which you want to manually fine-tune, and press OK repeatedly until the AFT position changes colour.
- 5 Fine-tune the channel with o + or s - so that you get the best TV reception. As you press the cursor buttons, the frequency changes from -15 to +15. (See Fig. 25.)
- 6 After fine tuning, press OK. The cursor appears beside the next programme position (at the left margin). (See Fig. 26.) Now the fine-tuned level is stored.
- 7 Repeat steps 4 to 6 to fine-tune other channels.

PROG. #	CH	SEARCH	LABEL	AFT
1	1	12.5	12.5	ON
2	2	13.0	13.0	ON
3	3	13.5	13.5	ON
4	4	14.0	14.0	ON
5	5	14.5	14.5	ON
6	6	15.0	15.0	ON
7	7	15.5	15.5	ON
8	8	16.0	16.0	ON
9	9	16.5	16.5	ON
10	10	17.0	17.0	ON
11	11	17.5	17.5	ON
12	12	18.0	18.0	ON
13	13	18.5	18.5	ON
14	14	19.0	19.0	ON
15	15	19.5	19.5	ON

Fig. 24.

PROG. #	CH	SEARCH	LABEL	AFT
1	1	12.5	12.5	ON
2	2	13.0	13.0	ON
3	3	13.5	13.5	ON
4	4	14.0	14.0	ON
5	5	14.5	14.5	ON
6	6	15.0	15.0	ON
7	7	15.5	15.5	ON
8	8	16.0	16.0	ON
9	9	16.5	16.5	ON
10	10	17.0	17.0	ON
11	11	17.5	17.5	ON
12	12	18.0	18.0	ON
13	13	18.5	18.5	ON
14	14	19.0	19.0	ON
15	15	19.5	19.5	ON

Fig. 25.

PROG. #	CH	SEARCH	LABEL	AFT
1	1	12.5	12.5	ON
2	2	13.0	13.0	ON
3	3	13.5	13.5	ON
4	4	14.0	14.0	ON
5	5	14.5	14.5	ON
6	6	15.0	15.0	ON
7	7	15.5	15.5	ON
8	8	16.0	16.0	ON
9	9	16.5	16.5	ON
10	10	17.0	17.0	ON
11	11	17.5	17.5	ON
12	12	18.0	18.0	ON
13	13	18.5	18.5	ON
14	14	19.0	19.0	ON
15	15	19.5	19.5	ON

Fig. 26.

## Parental Lock

You can prevent undesirable broadcasts from appearing on the screen. We suggest you use this function to prevent children from watching programmes which you consider unsuitable.

- 1 Press MENU to display the main menu.
- 2 Select +Preset with o + or s - and press OK. The PRESET menu appears.
- 3 Select +Parental Lock with o + or s - and press OK. The PARENTAL LOCK menu appears. (See Fig. 27.)
- 4 Using o + or s -, select the programme position you want to block and press OK. The CH and LABEL change colour indicating that this programme is now blocked. (See Fig. 28.)
- 5 Repeat step 4 to block other programme positions.

PROG. #	CH	SEARCH	LABEL	AFT
1	1	12.5	12.5	ON
2	2	13.0	13.0	ON
3	3	13.5	13.5	ON
4	4	14.0	14.0	ON
5	5	14.5	14.5	ON
6	6	15.0	15.0	ON
7	7	15.5	15.5	ON
8	8	16.0	16.0	ON
9	9	16.5	16.5	ON
10	10	17.0	17.0	ON
11	11	17.5	17.5	ON
12	12	18.0	18.0	ON
13	13	18.5	18.5	ON
14	14	19.0	19.0	ON
15	15	19.5	19.5	ON

Fig. 27.

PROG. #	CH	SEARCH	LABEL	AFT
1	1	12.5	12.5	ON
2	2	13.0	13.0	ON
3	3	13.5	13.5	ON
4	4	14.0	14.0	ON
5	5	14.5	14.5	ON
6	6	15.0	15.0	ON
7	7	15.5	15.5	ON
8	8	16.0	16.0	ON
9	9	16.5	16.5	ON
10	10	17.0	17.0	ON
11	11	17.5	17.5	ON
12	12	18.0	18.0	ON
13	13	18.5	18.5	ON
14	14	19.0	19.0	ON
15	15	19.5	19.5	ON

Fig. 28.

If you try to select a programme that has been blocked  
The message  
"LOCKED" appears  
on the blank TV screen.

- 1 On the PARENTAL LOCK menu, select the programme position you want to unblock with o + or s -.
- 2 Press OK. The CH and LABEL change colour to normal colour indicating that the blocking has been cancelled.

## Cancelling blocking

## Tuning in a Channel Temporarily

You can tune in a channel temporarily, even when it has not been preset. Use the buttons on the Full-Function side of the Remote Commander.

- 1 Press C on the Remote Commander. The indication "C" appears on the screen.
- 2 Enter the double-digit channel number using the number buttons (e.g. for channel 4, first press 0, then 4). However, the channel will not be stored.

## Watching the TV

This section explains the basic functions you use while watching TV. Most of the operations can be done using the simple side of the Remote Commander.

### Switching the TV on and off

Depress h on the TV.

### Switching off temporarily

Press i on the Remote Commander. The TV enters standby mode and the standby indicator on the front of the TV lights up.

To switch on again, Press x; PROGR +/-, or one of the number buttons on the Remote Commander.

### Switching off completely

Depress h on the TV.

### Selecting TV Programmes

Press PROGR +/- or press number buttons.

To select a double-digit number

Press +/-, then the numbers. For example, if you want to choose 23, press +/-, 2 and 3.

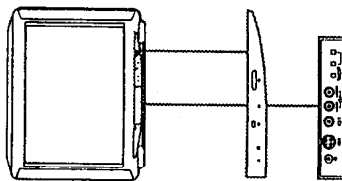
### Adjusting the Volume

Press 1 +/-.

### Operating the TV Using the Buttons on the TV

With the buttons on the TV, you can select programmes, adjust the volume, and select video input sources.

- Press P → 1 → 2 button repeatedly until the programme number 1 (for volume), or 2 (for video input picture) appears. Then adjust with the +/- buttons.
- Press →+ buttons to switch on the TV from the standby mode.
- Press →+ simultaneously to reset picture and sound controls to the factory preset level (RESET function).



This section explains the basic functions you use while watching TV. Most of the operations can be done using the simple side of the Remote Commander.

### Switching the TV on and off

Depress h on the TV.

### Switching off temporarily

Press i on the Remote Commander. The TV enters standby mode and the standby indicator on the front of the TV lights up.

To switch on again, Press x; PROGR +/-, or one of the number buttons on the Remote Commander.

### Switching off completely

Depress h on the TV.

### Selecting TV Programmes

Press PROGR +/- or press number buttons.

To select a double-digit number

Press +/-, then the numbers. For example, if you want to choose 23, press +/-, 2 and 3.

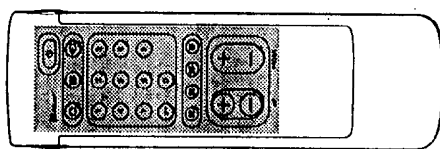
### Adjusting the Volume

Press 1 +/-.

### Operating the TV Using the Buttons on the TV

With the buttons on the TV, you can select programmes, adjust the volume, and select video input sources.

- Press P → 1 → 2 button repeatedly until the programme number 1 (for volume), or 2 (for video input picture) appears. Then adjust with the +/- buttons.
- Press →+ buttons to switch on the TV from the standby mode.
- Press →+ simultaneously to reset picture and sound controls to the factory preset level (RESET function).



If no picture appears when you depress h on the TV and if the standby indicator on the TV is lit, the TV is in standby mode. Press x or one of the number buttons to switch it on.

PROG. #	CH	SEARCH	LABEL	AFT
1	1	12.5	12.5	ON
2	2	13.0	13.0	ON
3	3	13.5	13.5	ON
4	4	14.0	14.0	ON
5	5	14.5	14.5	ON
6	6	15.0	15.0	ON
7	7	15.5	15.5	ON
8	8	16.0	16.0	ON
9	9	16.5	16.5	ON
10	10	17.0	17.0	ON
11	11	17.5	17.5	ON
12	12	18.0	18.0	ON
13	13	18.5	18.5	ON
14	14	19.0	19.0	ON
15	15	19.5	19.5	ON

Fig. 24.

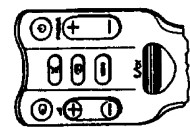
PROG. #	CH	SEARCH	LABEL	AFT
1	1	12.5	12.5	ON
2	2	13.0	13.0	ON
3	3	13.5	13.5	ON
4	4	14.0	14.0	ON
5	5	14.5	14.5	ON
6	6	15.0	15.0	ON
7	7	15.5	15.5	ON
8	8	16.0	16.0	ON
9	9	16.5	16.5	ON
10	10	17.0	17.0	ON
11	11	17.5	17.5	ON
12	12	18.0	18.0	ON
13	13	18.5	18.5	ON
14	14	19.0	19.0	ON
15	15	19.5	19.5	ON

Fig. 25.

PROG. #	CH	SEARCH	LABEL	AFT
1	1	12.5	12.5	ON
2	2	13.0	13.0	ON
3	3	13.5	13.5	ON
4	4	14.0	14.0	ON
5	5	14.5	14.5	ON
6	6	15.0	15.0	ON
7	7	15.5	15.5	ON
8	8	16.0	16.0	ON
9	9	16.5	16.5	ON
10	10	17.0	17.0	ON
11	11	17.5	17.5	ON
12	12	18.0	18.0	ON
13	13	18.5	18.5	ON
14	14	19.0	19.0	ON
15	15	19.5	19.5	ON

Fig. 26.

PROG. #	CH	SEARCH	LABEL	AFT
1	1	12.5	12.5	ON
2	2	13.0	13.0	ON
3	3	13.5	13.5	ON
4	4	14.0	14.0	ON
5	5	14.5	14.5	ON
6	6	15.0	15.0	ON
7	7	15.5	15.5	ON
8	8	16.0	16.0	ON
9	9	16.5	16.5	ON
10	10	17.0	17.0	ON
11	11	17.5	17.5	ON
12	12	18.0	18.0	ON
13	13	18.5	18.5	ON
14	14	19.0	19.0	ON



# Adjusting and Setting the TV Using the Menu

## Watching Teletext or Video Input

- Press **A** to view the teletext.
- Press three number buttons to select a page.
- Press one of the coloured buttons for fastest operation.
- Press **q** (PAGE +) or **r** (PAGE -) for the next or preceding page.
- To go back to the normal TV picture, press **x**.

**Watching a video input picture**  
Press **z** repeatedly until the desired video input appears. To go back to the normal TV picture, press **x**.

## More Convenient Functions

Use the Full-Function side of the Remote Commander.

- **Displaying the on screen indications**  
Press **G** once to display all the indications. They will disappear after some seconds.  
Press **G** twice to have the programme number and label stay on screen. Press twice again to make indications disappear.

### Muting the sound

- Press **u**.  
To resume normal sound, press **u** again.

### Displaying the time

- Press **x**. This function is available only when teletext is broadcast.  
To make the time display disappear, press **x** again.

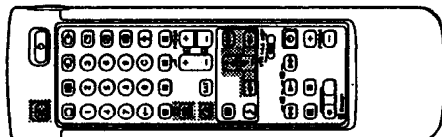
### Displaying of the Programme Table

Press **OK**. A Programme Table will be displayed on the right side of the TV screen (See Fig. 29.)

Selecting of TV programmes  
Press **PROG +/-** or selecting the desired programme position using **o + o s -** and press **OK**.

For details of the teletext operation, refer to page 20.

For details of the video input picture, refer to page 24.



To make the Programme Table disappear  
Press **MENU**.

## Adjusting the Picture and Sound

Although the picture and sound are adjusted at the factory, you can adjust them to suit your own taste. In addition, you can set the resolution to obtain a higher quality picture or reduce the picture noise. You can also select dual sound (bilingual) programmes when available, adjust the sound for listening with the headphones (J) or individually adjust and store the volume level of each channel (Volume offset). Also you have the possibility to adjust the sound to your individual taste using the Graphic Equalizer and special Sound effects.

- 1 Press **n** (for picture) or **Q** (for sound) on the Remote Commander.  
or  
Press **MENU** and select **Picture Control** or **Sound Control**, then press **OK**.  
The **PICTURE CONTROL** or **SOUND CONTROL** menu appears. (See Fig. 29 or Fig. 30.)
- 2 Using **o + o s -**; select the item you want to adjust and press **OK**. The selected item changes colour. (See Fig. 31.)
- 3 Adjust the setting with **o + o s -** and press **OK**.  
The cursor appears beside the next item (at the left margin). (See Fig. 32.)  
For the effect of each control, see the table below.
- 4 Repeat steps 2 and 3 to adjust other items.



Fig. 30.

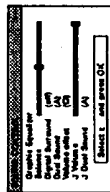


Fig. 31.



Fig. 32.



Fig. 33.

### Effect of each control

PICTURE CONTROL	Effect
Contrast	Less ——— More
Brightness	Darker ——— Brighter
Colour	Less ——— More
Hue	Greenish ——— Reddish
Sharpness	Min. — Centre — Max.
Reset	Resets picture to the factory preset levels
Resolution	off: Normal on: Obtain a higher picture quality
Noise Reduction	off: Normal on: Reduction of picture noise in case of weak signals
SOUND CONTROL	Effect
Graphic Equalizer	(See page 16 for more information)
Balance	More left ——— More right
Digital Surround	off: Normal Choice between special sound effects: Dome, Hall, Arena, Simulated (gives width to a monaural source)
Dual Sound	A: left channel B: right channel stereo mono The selected mode of The A-g -B indicator on the TV lights up (for NICAM broadcasts see next page)
Volume offset	-4 Less 0 More +4
Headphones:	Less ——— More
J Volume	A: left channel B: right channel stereo mono
J Dual Sound	A: left channel B: right channel stereo mono

If you have made a mistake  
To go back to the previous position.  
To go back to the main menu  
Keep pressing **←**.  
To go back to the normal TV picture  
Press **MENU**.

Note:  
HUE is only available for NTSC colour system and RESOLUTION does not work for SECAM colour system.

Note on LINE OUT  
The audio level and the dual sound mode output from the C jack on the rear correspond to the Head-Phone (CLIP) and DUAL SOUND settings.

When watching video input picture  
You can select DUAL SOUND to change the sound.



Fig. 29.

### Graphic Equalizer

Using this function you can individually adjust the sound by cutting and boosting selected frequencies. You can also select between the following modes:

1. Flat → Pop → Rock → Jazz → Vocal → User
2. Select =Sound control- in the Main Menu, then select =Graphic equalizer- using o + or s - and press OK.
3. Press OK. The colour of -Mode- changes. (See Fig. 34.) Select the desired mode with o + or s -, then press OK.
4. If you want to modify a mode, select the desired bar of a frequency band using o + or s - and press OK. The selected bar changes colour. Using o + or s - adjust the level of frequency and press OK. In this way you can adjust all 5 graphic bars.
5. Press MENU to return to the normal TV mode.

**Note:**  
The modifications made in "User" will not be lost. The settings are reset to the factory-set level when you change to another mode.



Fig. 34.

### Selecting Nicam Broadcasts\*

This Sony TV has been designed to select Nicam broadcasts when available. Whenever a Nicam broadcast is received, "NICAM" appears briefly on the screen. When the Nicam programme ends, or you switch channels to one without Nicam, the A-g -B indicators, on the TV will switch off. Nicam programmes can be broadcast in two ways. You may select the sound you want to hear in either of these by first following the instructions explained on page 15.

Service Being Broadcast	Action	Effect	Indication on the TV A-g -B
Stereo	Press o + or s -	Stereo Nicam (Mono 2-channel) mono	
Press o + or s - again to return to stereo Nicam (mono 2-channel)			
Bilingual	press o + or s -	Channel A Nicam Channel B Nicam mono	
Press o + or s - again to return to channel A Nicam			

\* Depending on availability of service.



### Using the Programme Table

On this table, you can see which channel is preset to which programme position. You can also select programmes using this table.

From the main menu, select =Programme Table- with o + or s - and press OK.

The PROGRAMME TABLE menu appears. (See Fig. 35.)

To scroll to higher programme numbers, press o + or s -.

To select a programme using this menu Select the programme number with o + or s - and press OK. The selected programme appears.

Fig. 35.

### Using the Sleep Timer

You can select a time period after which the TV automatically switches into standby mode.

1. From the main menu, select =Preset/Timer- with o + or s - and press OK. The PRESET/TIMER menu appears.
2. Using o + or s - select =Timer- and press OK. The TIMER menu appears. (See Fig. 36.)
3. Press OK. The time period option changes colour.
4. Select the time period with o + or s -. The time period (in minutes) changes as follows:  
10 → 20 → 30 → 40 → 50 → 60 → 70 → 80 → 90  
OFF
5. After selecting the time period, press OK. The cursor moves back to the left margin and the timer starts counting. One minute before the TV switches into standby mode, a message is displayed on the screen.

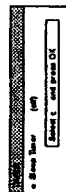


Fig. 36.

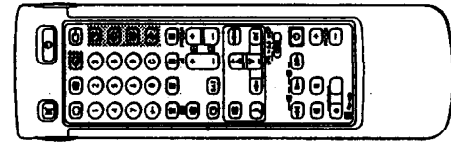


To go back to the normal TV picture Press MENU.

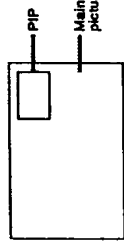
To switch off the timer Select =OFF- in step 3.

To check the remaining time Press G.

# PIP (Picture-In-Picture)



With this function you can display a PIP screen (small picture) within the main TV picture. In this way you can watch or monitor the video output from any connected equipment (for example from a VCR) while watching TV or video versa. For information about connection of other equipment, refer to page 23.



## Switching PIP on and off

Press 0.  
The PIP screen will be displayed. The PIP picture will come from the source chosen when the TV was last used.

To switch PIP off  
Press 0 again.

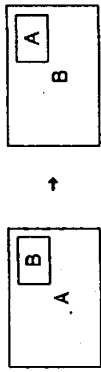
## Selecting a PIP source

Press 1.  
The symbol 1 will be displayed at the bottom, left-hand corner of the screen.  
Press 2, repeatedly until the desired source is indicated (e.g. TV, AV 1, AV 2, YC2, AV 3, YC3, AV 4, YC 4).

Note  
If no video source has been connected, the PIP picture will be indy.

## Swapping screens

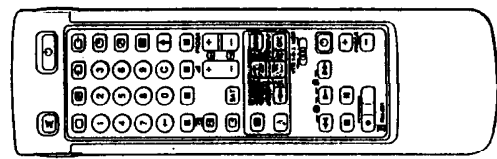
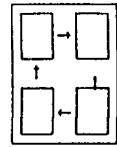
Press n.  
The main screen will switch the picture with the PIP screen.



Note  
If a TV programme is on the PIP screen and a video source on the main picture, and you want to change channels, first press 1 and then the programme buttons or PROG +/-.

## Changing the position of the PIP

Press m, repeatedly to change the position of the PIP screen within the main screen. There are four different positions available.



# Operating Screen Mode/PIP using the Menu

Using the Screen Mode/PIP Menu you have the possibility to change the aspect ratio of the TV display for wide screen effect, operate the PIP mode, scan 9 successive TV channels on the screen (Programme Catching), display 8 successive freeze pictures (Photo mode) or reproduce the main picture image by image (strobe function).

- 1 Press MENU to display the main menu.
- 2 Select "Screen mode/PIP" with  $\Delta$  + or  $\nabla$  - and press OK. The SCREEN MODE/PIP menu appears. (See Fig. 37.)
- a) Changing the Format  
Using  $\Delta$  + or  $\nabla$  - select "Screen mode" and press OK. The selected item changes colour. Using  $\Delta$  + or  $\nabla$  - select the desired format (4:3 normal ratio or 16:9 for wide screen effect) and press OK.
- b) Switching PIP on and off  
Using  $\Delta$  + or  $\nabla$  - select "PIP" and press OK. Using  $\Delta$  + or  $\nabla$  - select "on" to display the PIP screen and "off" to switch it off and press OK.
- c) Changing the position of the PIP  
Using  $\Delta$  + or  $\nabla$  - select "PIP position" and press OK. Using  $\Delta$  + or  $\nabla$  - repeatedly to change the position of the PIP screen and press OK.

## MULTI PIP functions

- a) Programme Catching  
Using  $\Delta$  + or  $\nabla$  - select "Programme Catching" and press OK. Now a scan of 9 successive programmes (8 still pictures, 1 live picture where the cursor is positioned) is displayed on the TV screen starting from the programme tuned in. Using  $\Delta$  + or  $\nabla$  - you can move the cursor and update the still pictures. The programme scanning starts again if you select the programme position lower or higher than the 9 displayed ones. (See Fig. 38.)

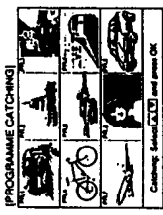


FIG 38.

- To select a Programme using the Programme Index  
Using  $\Delta$  + or  $\nabla$  - select the desired programme position and press OK. Now the selected programme is displayed and you are back in the normal TV mode.

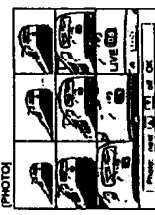


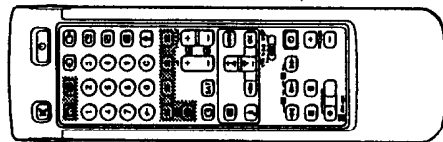
FIG 39.

- b) Photo mode  
Using  $\Delta$  + or  $\nabla$  - select "Photo" and press OK. Now the main picture is displayed as a succession of 8 still pictures and a 9th picture which will be live. (See Fig. 39.) Using  $\Delta$  + or  $\nabla$  - the photo mode starts again. Press OK to return to the normal TV mode.

- c) Strobe mode  
Using  $\Delta$  + or  $\nabla$  - select "Strobe" and press OK. Now the TV picture is displayed image by image, which gives it the effect of slow motion. (See Fig. 40.) Using  $\Delta$  + or  $\nabla$  - select the speed of the motion (3 different speeds are available). Press OK to return to normal TV mode.

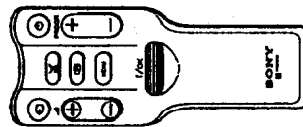


FIG 40.



**Note**  
Teletext errors may occur if the broadcasting signals are weak.

With the simple slide of the Remote Commander, switch teletext on and off, operate Fastext, and directly select page numbers.



**Note**  
Fastext operation is only possible, if the TV station broadcasts Fastext signals.

TV stations broadcast an information service called 'Teletext' via the TV channels. Teletext service allows you to receive various information pages such as weather reports or news at any time you want. For advanced teletext operation, use the buttons on the Full-Function side of the Remote Commander.

## Direct Access Functions

### Switching Teletext on and off

- 1 Select the TV channel which carries the teletext broadcast you want to watch.
- 2 Press **A** to switch on teletext.  
A teletext page will be displayed (usually the index page). If there is no teletext broadcast, "No text available" is displayed on the information line of the screen.  
To switch teletext off, Press **X**.

### Selecting a teletext page

With direct page selection  
Use the number buttons to input the three digits of the chosen page number.  
If you have made a mistake, type in any three digits. Then re-enter the correct page number.

- 1 With page-catching  
Select a teletext page with a page overview (e.g. index page).  
Press **OK**. "Page catching" will be displayed on the information line. The last digit if the first displayed page number flashes.  
Using **0 + 0 + 0**, select the desired page and press **OK**.  
The requested page will appear in a few seconds.  
Press **A** to resume.
- 2 Accessing next or preceding page  
Press **G** (PAGE +) or **F** (PAGE -).  
The next or preceding page appears.

### Superimposing the teletext display on the TV programme

- Press **A** once in teletext mode or twice in TV mode.
- Press **A** again to resume normal teletext reception.

### Preventing a teletext page from being updated

- Press **a** (HOLD). The HOLD symbol = **a** is displayed on the information line.
- Press **A** to resume normal teletext reception.

### Using Fastext

With Fastext you can access pages with one key stroke.  
When a Fastext page is broadcast, a colour-coded menu will appear at the bottom of the screen. The colours of this menu correspond to the red, green, yellow and blue buttons on the Remote Commander.  
Press the corresponding coloured button on the Remote Commander which corresponds to the colour-coded menu. The page will be displayed after some seconds.

## Using the Teletext Menu

This TV is provided with a menu-guided teletext system. When teletext is switched in, you can use the menu buttons to operate the teletext menu. Select the teletext menu functions in the following way:

- 1 Press **MENU**. The menu will be superimposed on the teletext display. (See Fig. 41.)
- 2 Using **0 + 0 + 0**, select the teletext function you want and press **OK**. (See Fig. 42.)

### USER PAGES/PRESET USER PAGES

See page 22 for information about presetting and operating the user pages.

### INDEX

The index will give you an overview of the contents of the teletext and the page numbers.

### TOP/BOTTOM/FULL

For convenient reading of a teletext page, you can enlarge the teletext display with the ability to scroll up and down. After having selected the function, an information line TOP/BOTTOM/FULL will be displayed. (See Fig. 43.)

Press **0 + 0** for "Top" to enlarge the upper half. Keep pressing **0** for "Bottom" to enlarge the lower one. Press **OK** for "Full" to resume the normal size.  
Press **A** to resume normal teletext reception.

### TEXT CLEAR

After having selected the function, you can watch a TV programme while waiting for a requested teletext page to be displayed. (The symbol changes colour). (See Fig. 44.)  
Press **A** to view the captured page.

### SUBTITLES

Your teletext service will inform you if a TV programme is subtitled. After having selected the function the subtitles will be displayed.

### REVEAL

Sometimes pages contain concealed information, such as answers to a quiz. The reveal option lets you disclose the information. After having selected the function, an information line "REVEAL ON/OFF" will be displayed. (See Fig. 45.)

Using **0 + 0** or **0 + 1**, select ON to reveal the information or OFF to conceal it again.  
Press **A** to resume normal teletext reception.

### TIME PAGE

This feature is not available in the U.K.

### SUBPAGE

You may want to select a particular teletext page from several subpages which are rotated automatically. After having selected the function, an information line will be displayed.

To select the desired subpage, enter four digits using **PROGR** +/- or the number buttons. (e.g. enter 0002 for the second page of a sequence.)

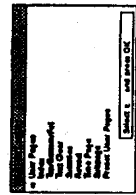


Fig. 41.

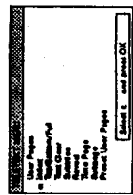


Fig. 42.

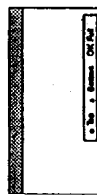


Fig. 43.

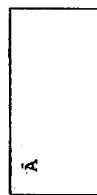


Fig. 44.

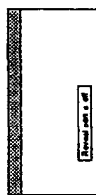


Fig. 45.

## User Page Bank System

You can store up to 30 pages in the 6 teletext page bank system. In this way you have quick access to the pages you watch frequently.

### Storing pages

There are 5 banks (A to E) for 5 teletext stations. In each bank you can store 6 preferred pages (1P to 6P).

Press **A** (if Teletext is not on already) and **MENU** to show the TELETEXT MENU display.

- 1 Select PRESET USER PAGES with **o + or s -** and press **OK**.
- 2 Select the desired bank with **o + or s -** and press **OK**. The cursor will go to the first position (P1) of the preferred pages.
- 3 Input the three digits of your first preferred page with the number buttons. The cursor will go to the second position.
- 4 Repeat step 4 for the other 5 page numbers you want to preset. If you do not want to preset all 6 page numbers available, press **OK** without inserting any number.
- 5 Select -Allocate Bank- with **o + or s -** and press **OK**.
- 6 Select the programme position for which you have preset pages with **o + or s -** and press **OK**. (See Fig. 46).
- 7 Select the desired bank with **o + or s -** (Banks A to E are available) and press **OK**.
- 8 Repeat steps 3 to 8 for the other 4 banks available.

### Displaying User Pages

- 1 Select **MENU**.
- 2 Select -USER PAGES- with **o + or s -** and press **OK**. A table of the stored preferred pages will be displayed. (See Fig. 47).
- 3 Select the desired page with **o + or s -** and press **OK**. The page will be displayed after some seconds.

or

You can use the coloured buttons on the Remote Commander to have quick access to the first four User pages. Page 1 corresponds to the red button, P 2 to the green one, P 3 to the yellow one and P 4 to the blue button.

To select the desired page press the respective coloured button while you are in TV mode. Now the Page number of this teletext page will appear in white at the top in the left-hand corner of the TV screen. When the page number changes colour the page is available. Press the coloured button again to display the page.

If two broadcasting stations use the same Teletext one bank to 2 different programme positions.

BANK	P1	P2	P3	P4	P5	P6
A	200	201	202	203	204	205
B	100	101	102	103	104	105
C	300	301	302	303	304	305
D	400	401	402	403	404	405
E	500	501	502	503	504	505

Below the table, there are fields for 'Allocat Bank', 'Bank', 'Page', 'User', and 'Bank' with corresponding values and a 'Select L. and press OK' button.

Fig. 46.

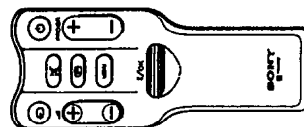
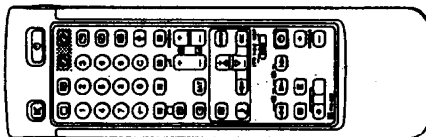
PAGE	PROGRAMME
1	200
2	201
3	202
4	203
5	204
6	205

Below the table, there are fields for 'Bank', 'Page', 'User', and 'Bank' with corresponding values and a 'Select L. and press OK' button.

Fig. 47.

# Operating Optional Equipment

Selecting input with PROGR +/- or number buttons. You can preset video input to the programme positions so that you can select them with PROGR +/- or number buttons. For details, see "Preset channels manually" on page 8.



## Selecting input and output

This section explains how to view the video input picture (of the video source connected to your TV), and how to select the output signal using direct access buttons or the menu system.

### Selecting input

Press **z** repeatedly to select the input source.

The symbol of the selected input source will appear.

To go back to the normal TV picture

Press **x**.

### Input modes

Symbol	Input signal
<b>z 1</b>	Audio/Video input through the <b>e 1</b> connector
<b>1</b>	RGB input through the <b>e 1</b> connector
<b>z 2</b>	Audio/Video input through the <b>A 2/y 2</b> connector
<b>y 2</b>	S video input through the <b>A 2/y 2</b> or <b>y 2</b> connector
<b>z 3</b>	Audio/Video input through the <b>z 3</b> and <b>p 3</b> on the front
<b>y 3</b>	S video input through the <b>y 3</b> connectors on the front (4-pin connector)
<b>z 4</b>	Audio/Video input through the <b>A 4/y 4</b> connector
<b>y 4</b>	S video input through the <b>A 4/y 4</b> or <b>y 4</b> connector (4-pin connector)

You can also select the input mode using the **P→1** → **z** and **→+** buttons on the TV. In this case, first select **z**, and then press **→+** buttons to select the input.

### Selecting the output

The **A 2/y 2** connector outputs the source input from the other connectors.

Press **h** repeatedly to select the output.

The symbol of the selected output source appears.

### Output modes

Symbol	A 2/y 2 connector outputs
<b>1 h</b>	The audio/Video signal from the <b>e 1</b> connector
<b>2 h</b>	The audio/Video signal from the <b>A 2/y 2</b> connector
<b>2 0</b>	The audio/S video signal from the <b>A 2/y 2</b> connector
<b>3 h</b>	The audio/Video signal from the <b>z 3</b> and <b>p 3</b> connectors
<b>3 0</b>	The audio/S video signal from the <b>y 3</b> and <b>p 3</b> connectors
<b>4 h</b>	The audio/Video signal from the <b>A 4/y 4</b> connector
<b>4 0</b>	The audio/S video signal from the <b>A 4/y 4</b> connector
<b>TV h</b>	The audio/Video signal from the <b>E</b> serial terminal

When recording (record) button, make sure to press this button and the one to the right of it simultaneously.

## Checking and selecting the input and output sources using the menu

You can display the menu to see which input sources are selected for the TV screen and PIP screen, and which output source is selected. You can also select them on the menu display.

- 1 Select "Video Connection" with **o + o s -** and press **OK**. The VIDEO CONNECTION menu appears. (See Fig. 48). You can see which source is selected for the TV and PIP input, and for the output. If you want to select the input and output on this menu, go on to the next step.
- 2 Select TV screen (input source for the TV screen), PIP (input source for the PIP screen), or Output (output source) with **o + o s -** and press **OK**. One of the source items changes colour. (See Fig. 48).
- 3 Select the desired source with **o + o s -**. (See Fig. 50). For details about each source, see the table on page 23.
- 4 Press **OK**. The selected source is confirmed, and the cursor appears. (See Fig. 51).
- 5 Repeat steps 2 to 4 to select the source for other inputs or outputs.

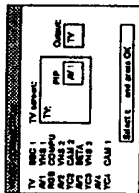


Fig. 48

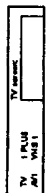


Fig. 49



Fig. 50

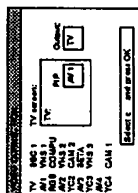


Fig. 51

## Remote Control of Other Sony Equipment

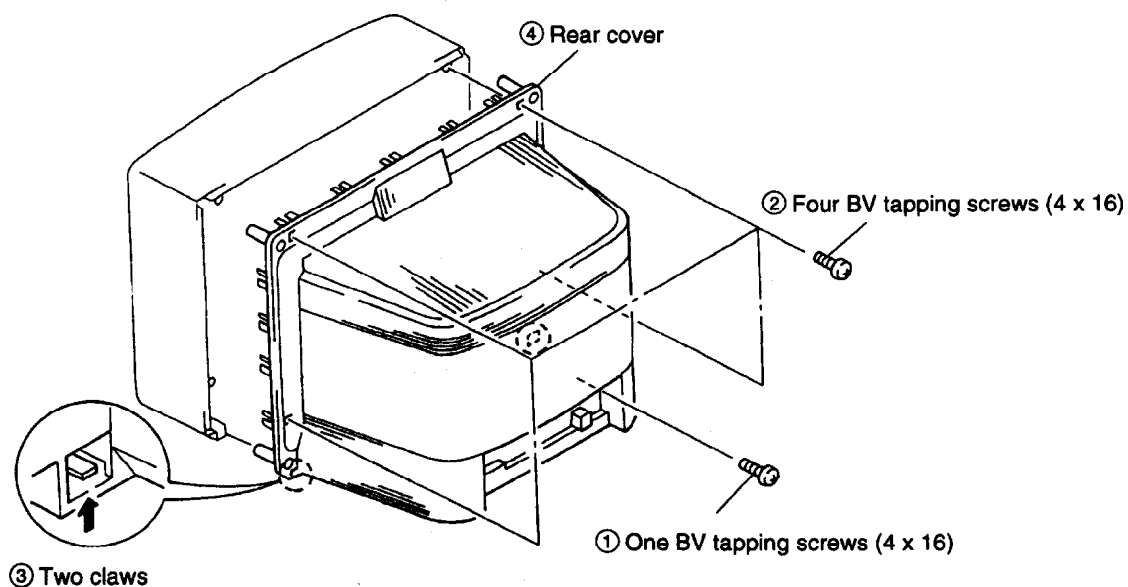
You can use the TV Remote Commander to control other remote-controlled equipment. The buttons for video operation have been factory-set to control most of Sony video equipment, such as: Beta, 8mm or VHS VTRs or video disc players.

### Tuning the Remote Commander to Sony equipment

- 1 Set the VTR 1/2/3 MDP selector according to the equipment you want to control:  
VTR 1: Beta or ED Beta VTR  
VTR 2: 8mm VTR  
VTR 3: VHS VTR  
MDP: Video disc player
- 2 Use the buttons indicated in the illustration to operate the additional equipment. If your video equipment is furnished with a COMMAND MODE selector set this selector to the same position as the VTR 1/2/3 MDP selector on the TV Remote Commander. If the equipment does not have a certain function, the corresponding button on the Remote Commander will not operate.

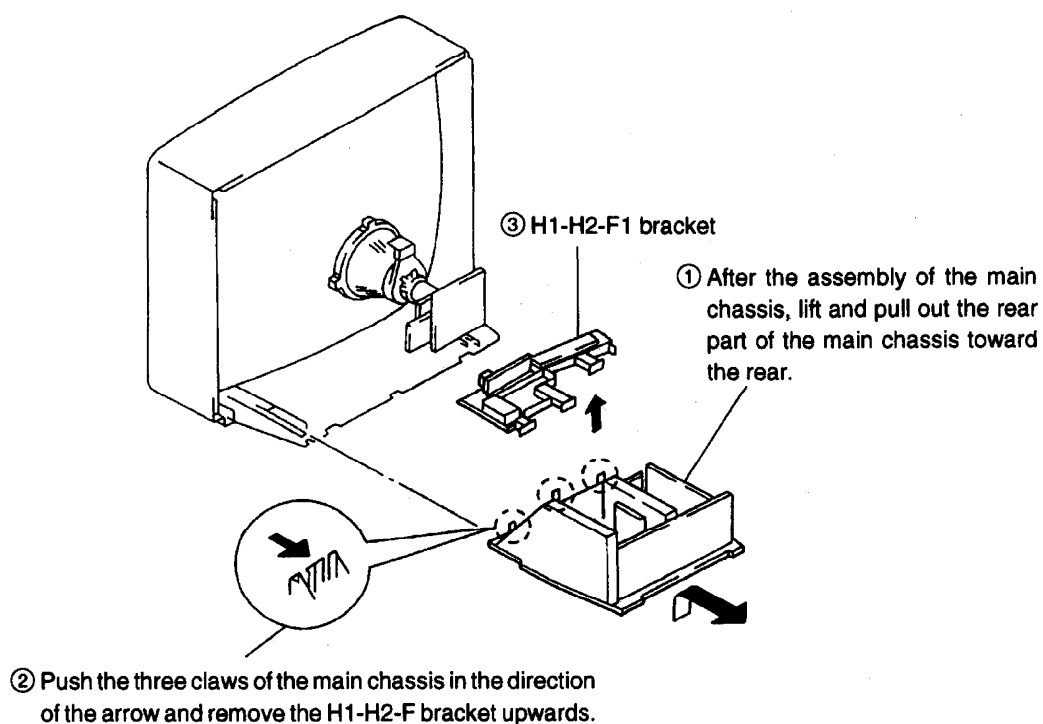
## SECTION 2 DISASSEMBLY

### 2-1. REAR COVER REMOVAL

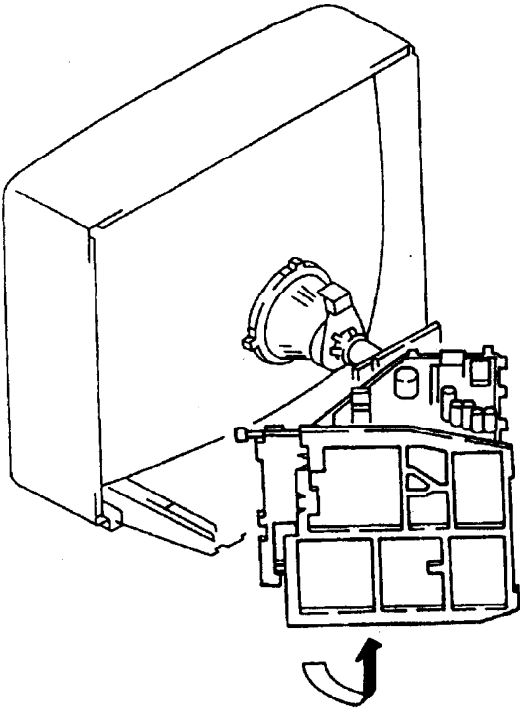


### 2-2. CHASSIS ASSY REMOVAL

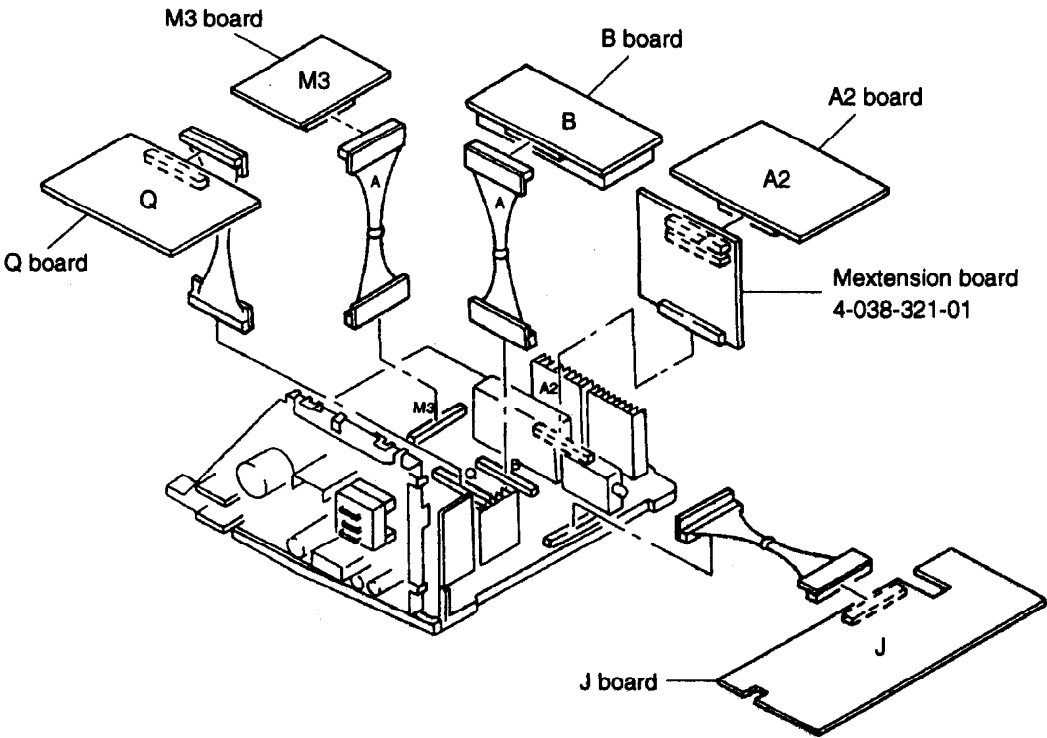
- \* Remove the connector bracket and then perform the following servicing.  
(refer to 2-3. CHASSIS ASSY REMOVAL.)



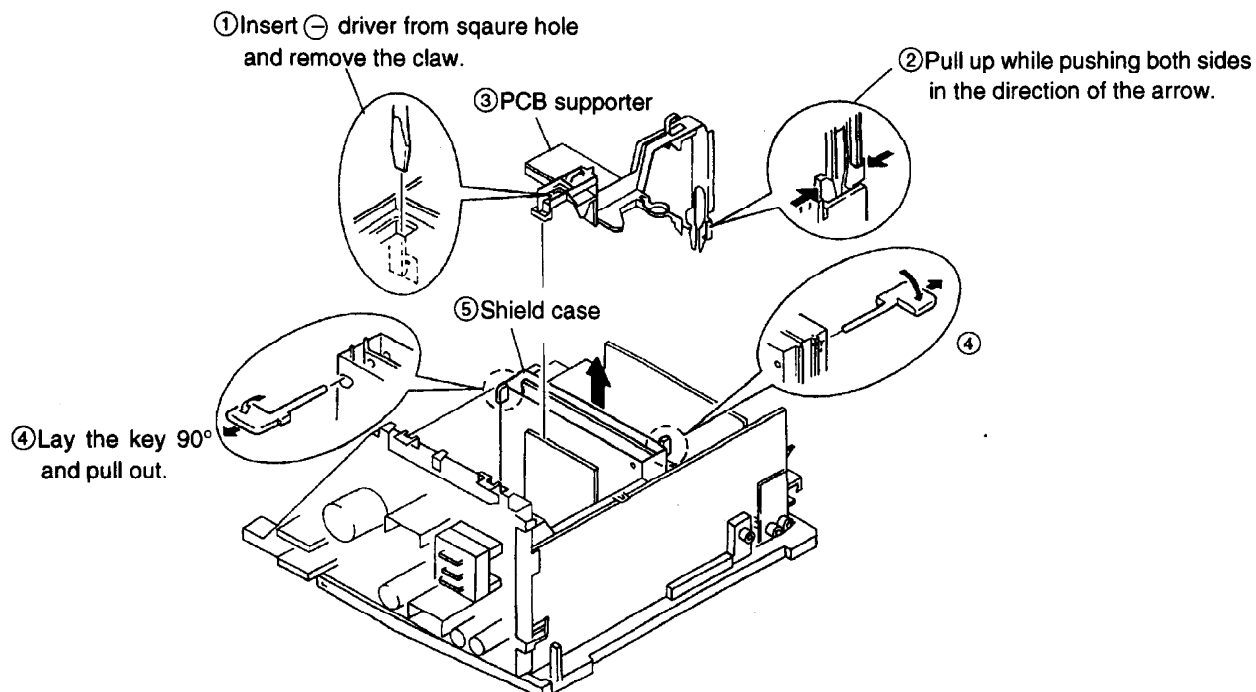
2-3. SERVICE POSITION



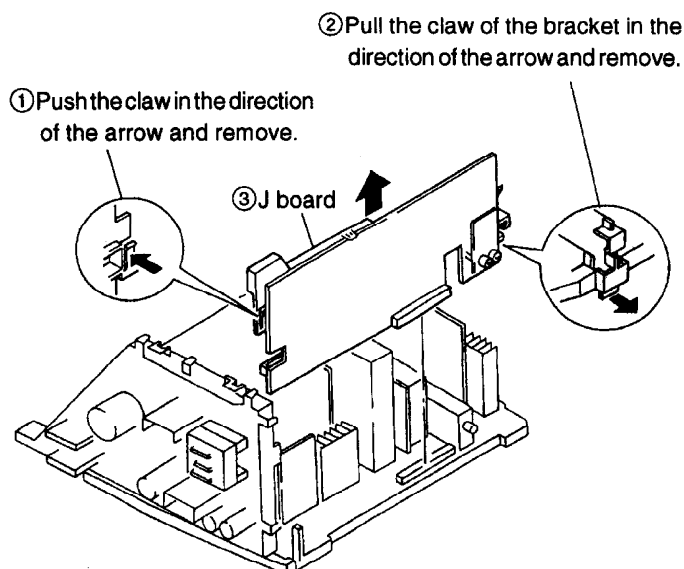
2-4. EXTENSION BOARD



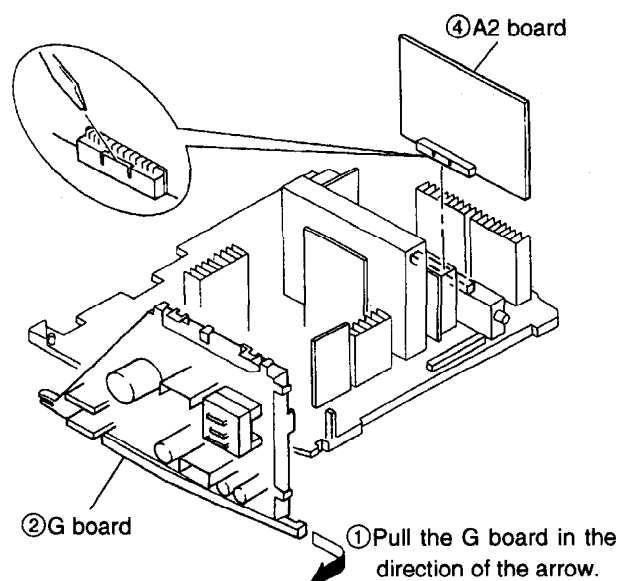
## 2-5. PCB SUPPORTER AND SHIELD CASE REMOVAL



## 2-6. J BOARD REMOVAL

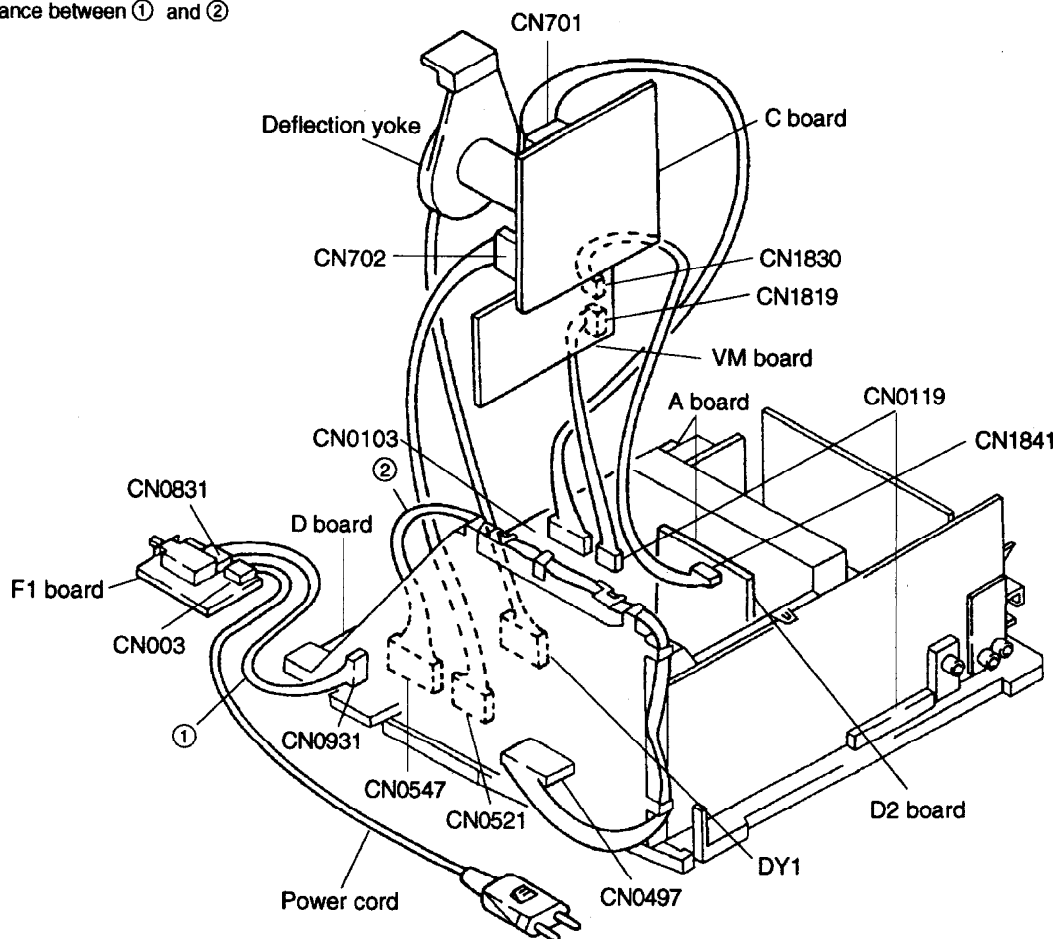


## 2-7. G AND A2 BOARDS REMOVAL

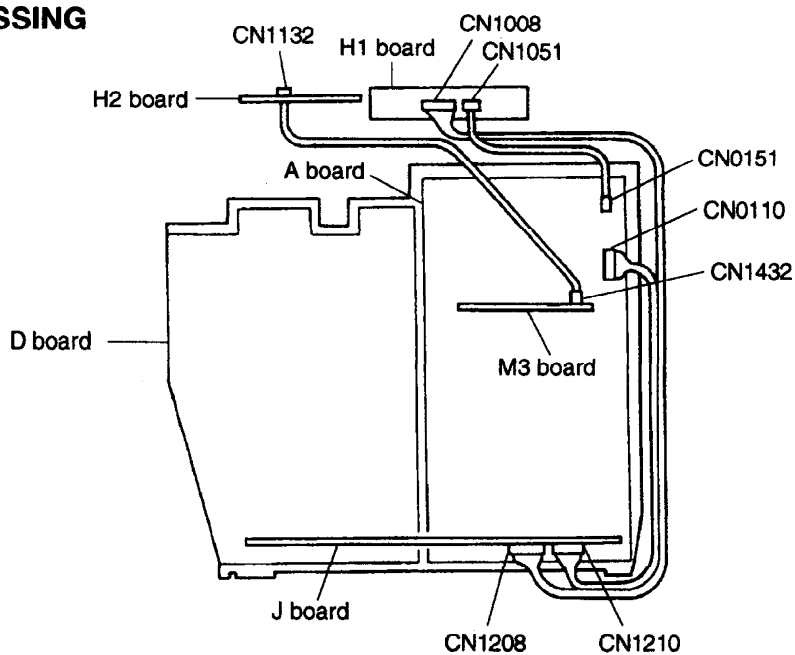


## 2-8-1. WIRE DRESSING

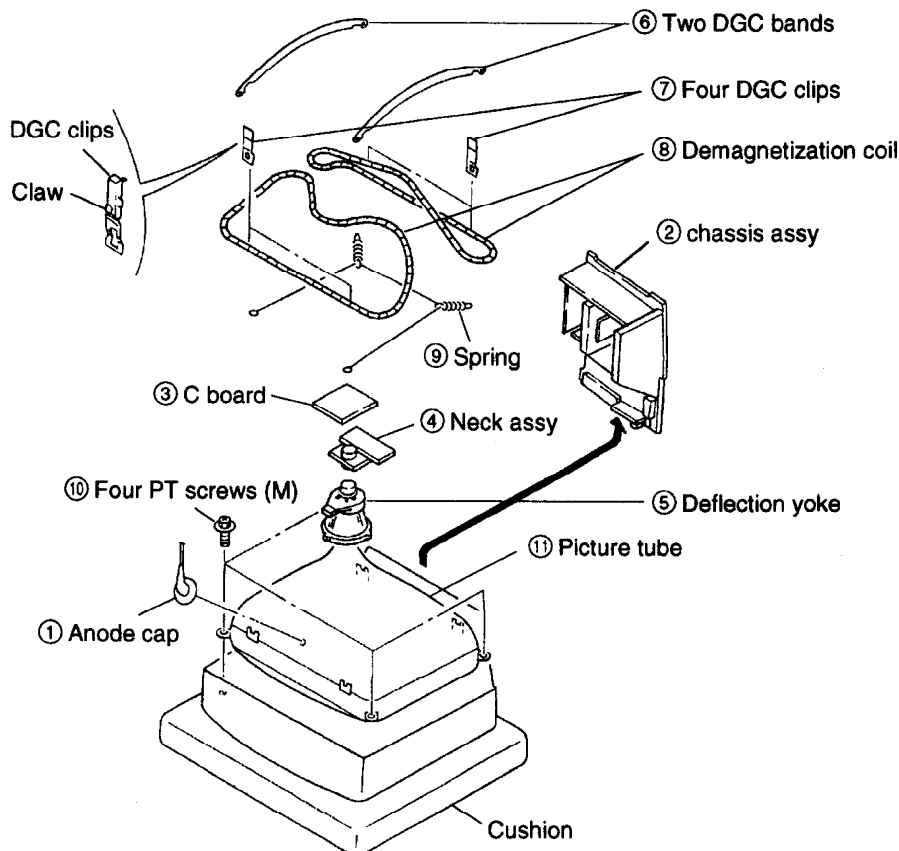
- Keep distance between ① and ②



## 2-8-2. WIRE DRESSING



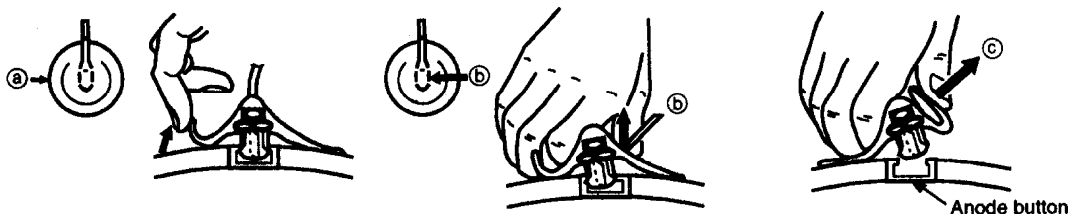
## 2-9. PICTURE TUBE REMOVAL



### • REMOVAL OF ANODE-CAP

NOTE: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

### • REMOVING PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by the arrow (a).

② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow (b).

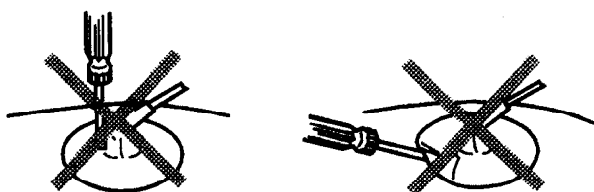
③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow (c).

### • HOW TO HANDLE AN ANODE-CAP

① Don't hurt the surface of the anode-cap with sharp shaped material!

② Don't press the rubber hardly not to hurt inside of anode-caps!  
A material fitting called as shatter-hook terminal is built in the rubber.

③ Don't turn the foot of rubber over hardly!  
The shatter-hook terminal will stick out or hurt the rubber.



SECTION 3  
SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there is specific instruction to the contrary, carry out these adjustments with the rated power supply.
- Unless there is specific instruction to the contrary, set the controls and switches as this way:
  - Contrast ..... 80%  
(or remote control normal)
  - ⚙ Brightness ..... 50%
- Carry out the following adjustments in this order:
  1. Beam landing
  2. Convergence
  3. Focus
  4. White balance

Note: Testing equipment required.

1. Colour bar/pattern generator
2. Degausser
3. DC power supply
4. Digital multimeter
5. Oscilloscope

Preparation:

- In order to reduce the influence of geomagnetism on the set's picture tube face it east or west.
- Switch on the set's power and degauss with the degausser.

3-1. BEAM LANDING

1. Input a white signal with the pattern generator.
  - Contrast } normal
  - Brightness }
2. Position neck assy as shown in Fig. 3-2.
3. Set the pattern generator raster signal to red.
4. Move the deflection yoke to the rear and adjust with the purity control so that the red is at the center and the blue and the green take up equally sized areas on each size. (see Fig. 3-1 - 3-3.)
5. Move the deflection yoke forward and adjust so that entire screen is red. (See Fig. 3-1.)
6. Switch the raster signal to blue, then to green and verify the condition.
7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
8. If the beam does not land correctly in all the corners, use a magnet to adjust it. (See Fig. 3-4.)

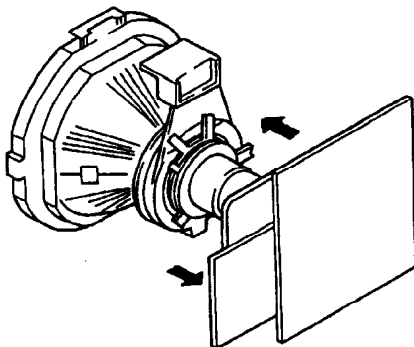


Fig. 3-1

Fig. 3-2

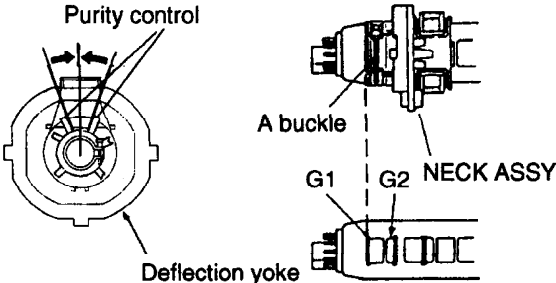


Fig. 3-3

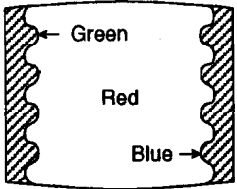
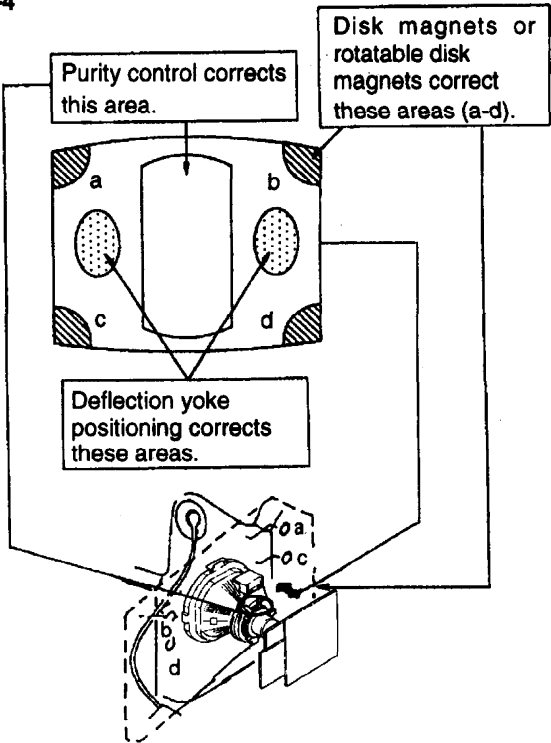


Fig. 3-4

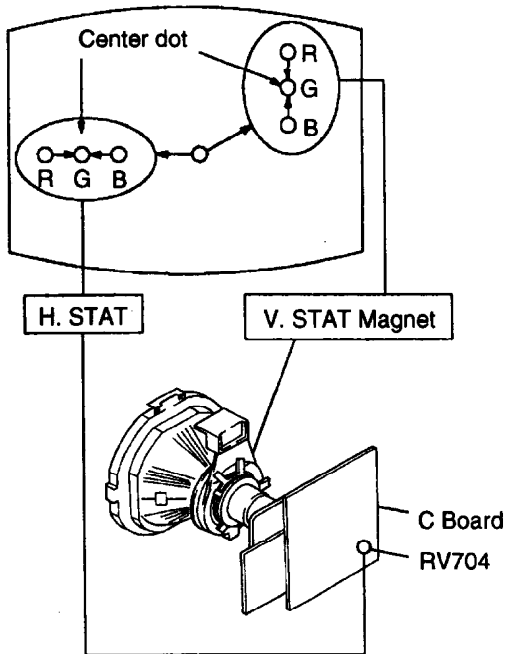


### 3-2. CONVERGENCE

#### Preparations:

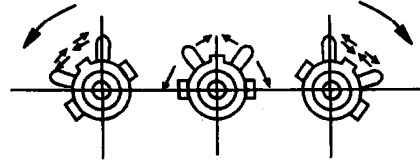
- Before starting this adjustment, adjust the focus, horizontal size and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.

#### (1) Horizontal and vertical static convergence

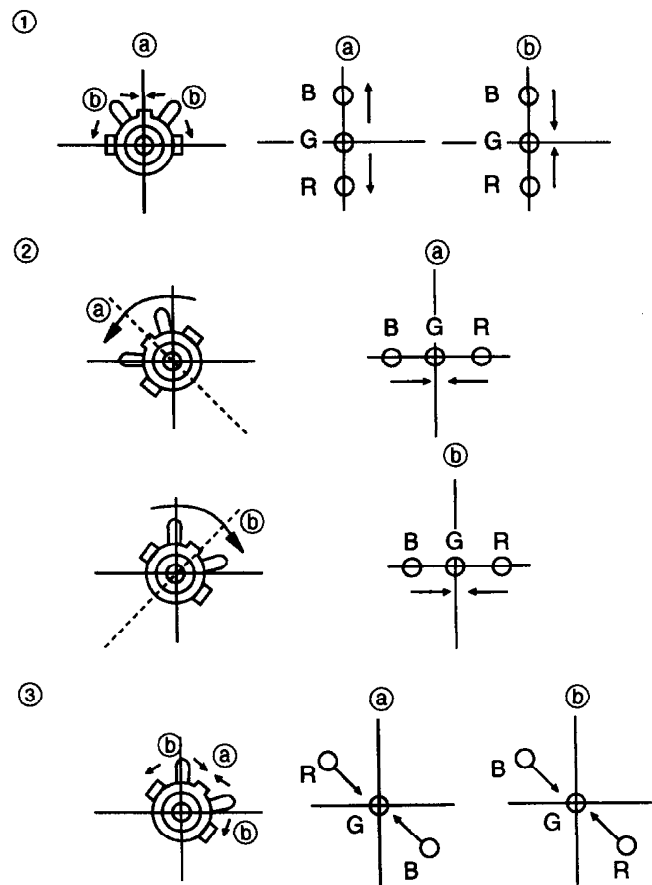


1. (Moving horizontally), adjust the H.STAT control so that the red, green, and blue points are on top of each other at the center of the screen.
2. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.
3. If the H.STAT variable resistor cannot bring the red, green, and blue points together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V.STAT magnet in the manner given below.  
(In this case, the H.STAT variable resistor and the V.STAT magnet influence each other)

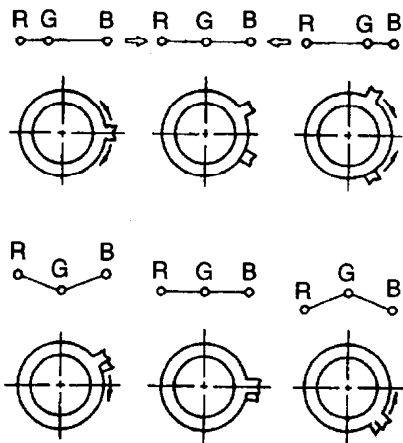
- Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.



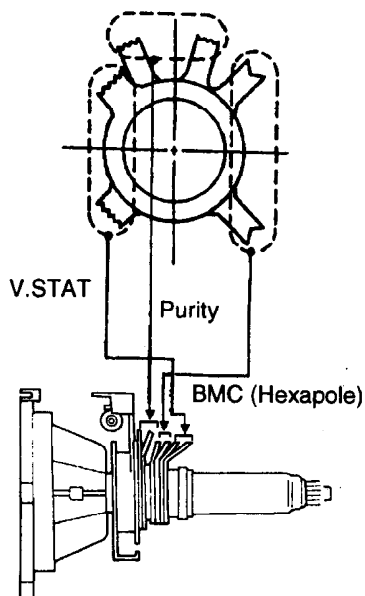
4. If the V.STAT magnet is moved in the direction of the (a) and (b) arrows, the red, green, and blue points move as shown below.



• Operation of BMC (Hexapole) Magnet

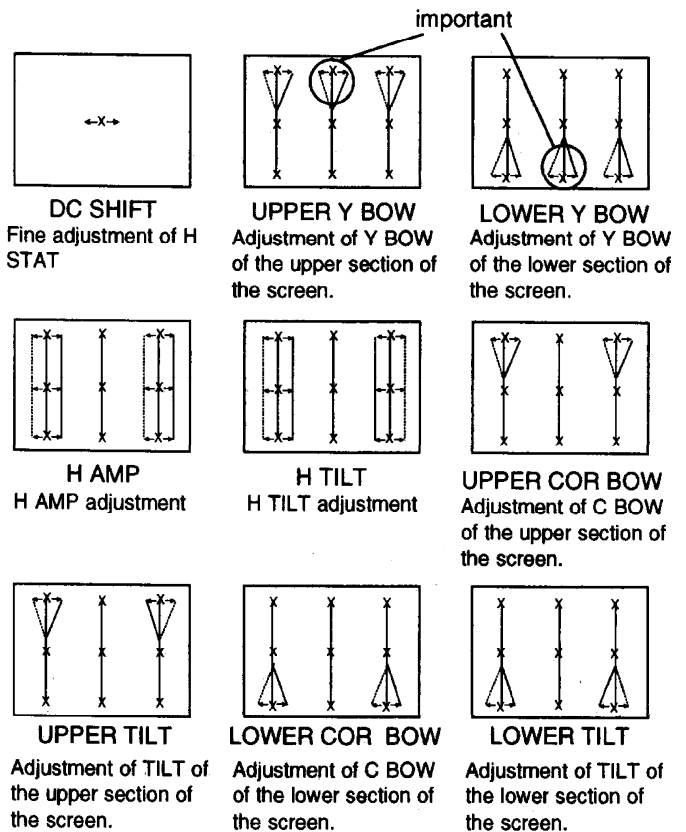


- The respective dot positions resulting from moving each magnet interact, so be sure to perform adjustment while tracking. Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).



CXA1526		
1	DC SHIFT	(32)
2	UPPER Y BOW	(4)
3	LOWER BOW	(5)
4	H AMP	(48)
5	H TILT	(29)
6	UPPER COR BOW	(32)
7	UPPER TILT	
8	LOWER COR BOW	(32)
9	LOWER TILT	(32)

R.G.B. dots movement on the screen of the set



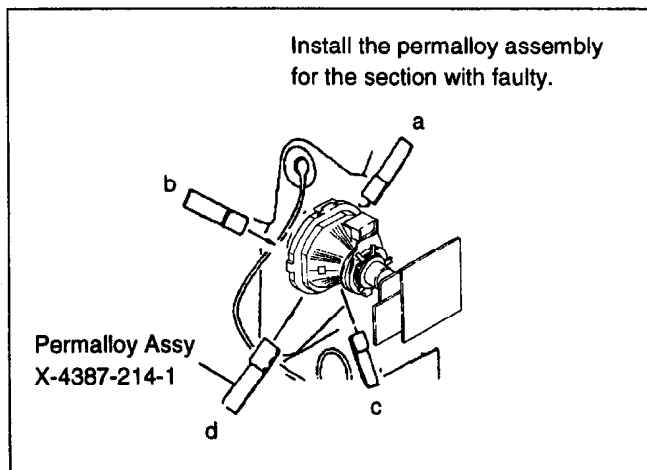
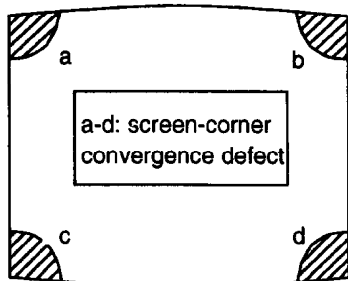
At this time, H.TILT, H.AMP, UPPER TILT, UPPER COR, BOW, LOWER TILT, and LOWER COR, BOW look like all the same, but the movement of the right and left dots are reverse in all the TILT system. (Pay attention to the dotted lines.)

(2) Dynamic Convergence Adjustment

1. Adjust horizontal convergence located at the center position of the screen with H STAT VR.
2. Enter into service mode. (Refer to the section 2 "Electrical Adjustment" on how to enter service mode.)
3. Select CXA1526 on menu.
4. Select each item and adjust them so that each item attains optimal convergence.
5. Press **OK** button to write the data.

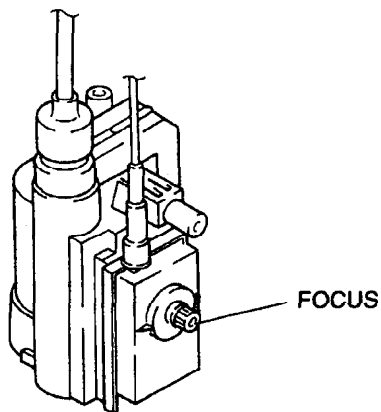
### (3) Screen corner convergence

If you cannot adjust corner convergence properly, correct them with permalloy.



### 3-3. FOCUS

Adjust the focus to optimize the screen.



### 3-4. WHITE BALANCE

#### White balance adjustment

1. Receive all-white signal.
2. Enter into service mode. (Refer to the section 4 "Electrical Adjustment" to how to enter service mode.)
3. Select TDA4780 on menu.

Item No.	Adjustment item	Data amount
> 1	BRIGHT	31
2	COLOR	31
3	PICT	52
4	HUE	31
5	R GAIN	31
6	G GAIN	ADJ.
7	B GAIN	ADJ.
8	R LEVEL REF	ADJ.
9	G LEVEL REF	ADJ.
10	B LEVEL REF	ADJ.
11	PEAK DRV LIMIT	36
12	GAMMA	31
13	SANDCASTLE 2 LEVEL-5	ON
14	DELOF	OFF
15	DATA BUFFER	OFF

Select ▲▼ and press OK.

4. Set picture to MAX.
5. Adjust G-DRIVE B-DRIVE with [F], [G] buttons so that the white balance becomes optimum.
6. Press [OK] button to write the data for each item.
7. Set picture to MIN.
8. Adjust R LEVEL REF, G LEVEL REF and B LEVEL REF with [F], [G] buttons so that the white balance becomes optimum.
9. Press [OK] button to write the data for each item.

SECTION 4  
CIRCUIT ADJUSTMENTS

4-1. ELECTRICAL ADJUSTMENTS

Service adjustment to this model can be performed with the supplied remote commander, RM-831.

HOW TO ENTER INTO SERVICE MODE

1. Turn on the main power switch of the set . Then press "⏻" button of the remote commander twice.

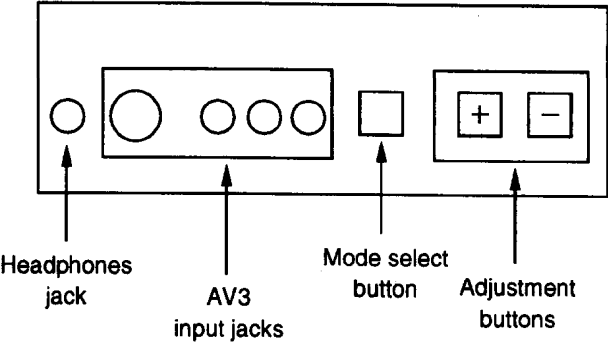


Fig. 4-1

2. "TT" will appear on the upper right corner of the screen.

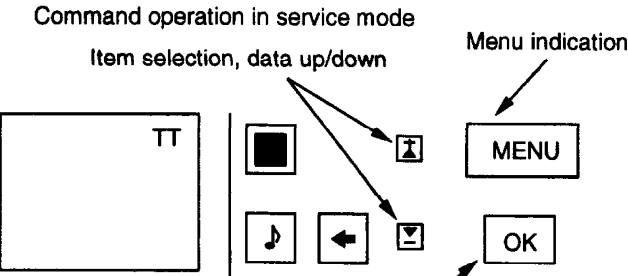


Fig. 4-2

Fig. 4-3 Selection completion, data written-in

3. Press the **MENU** button of the commander to get the menu on screen.

MAIN MENU	
Programme Table	
Video Connection	
Screen Mode/PIP	
Preset/Timer	
Picture Control	
Sound Control	
Language	
> DEMO	
Select < > and press OK	

Fig. 4-4

4. Press the **⏻** and **⏮** buttons of the commander and move > to DEMO.
5. Press **OK** button to proceed to the next menu.
6. The menu of fig. 4-5 will appear on screen. Select DEVICE corresponding to the adjustment item from the table on next page.

DEVICES	
Init TV	
> TDA4780	
ECO3	
CXD2018	
TDA9145	
CXA1526	
TDA6812	
CX7948a	
P/P	
Megatext	
Digital Sound	
Select < > and press OK	

Fig. 4-5

7. If adjustment item is TDA4780, press the **⏻** button and move > to TDA4780.

TDA4780		
Item No.	Adjustment item	Data amount
> 1	BRIGHT	31
2	COLOR	31
3	PICT	52
4	HUE	31
5	R GAIN	41
6	G GAIN	38
7	B GAIN	31
8	R LEVEL REF	31
9	G LEVEL REF	31
10	B LEVEL REF	31
11	PEAK DRV LIMIT	36
12	GAMMA	31
13	SANDCASTLE 2 LEVEL-5	ON
14	DELOF	OFF
15	DATA BUFFER	OFF

Select ▲▼ and press OK.

8. Press **OK** button to get the next selection menu.
9. Press **OK** button and move > to the adjustment item and press **OK** button.
10. Press the **Left** and **Right** buttons to change the data in order to comply each standard.
11. Press **OK** button to write data.
12. Turn off the power to quit service mode when completing the adjustment.

## TDA4780

Item No.	Adjustment item	Data amount
01	BRIGHT	31
02	COLOR	31
03	PICT	52
04	HUE	31
05	R GAIN	41
06	G GAIN	38
07	B GAIN	31
08	R LEVEL REF	31
09	G LEVEL REF	31
10	B LEVEL REF	31
11	PEAK DRV LIMIT	36
12	GAMMA	31
13	SANDCASTLE 2 LEVEL-5	ON
14	DELOF	OFF
15	DATA BUFFER	OFF
16	NTSC MATRIX	OFF
17	HDTV	OFF
18	FSBL	OFF
19	AUTO CUT OFF	ON
20	FSW 2 DISABLE	OFF
21	FSW 2	OFF
22	FSW 1 DISABLE	OFF
23	FSW 1	OFF
24	ADAPTIVE BLACK	OFF
25	Y HIGH 1V	OFF
26	MOD2	OFF
27	BLUE STRETCH	OFF
28	VM OUT	ON
29	PEAK DRV ABLOSUTE	ON
30	TIME CNST PEAK LIMIT	OFF
31	no selection	OFF
32	SUB BRIGHT	- 5
33	SUB COLOR	0

## CXD2018

Item No.	Adjustment item	Data amount
01	V SIZE	ADJ.
02	V SHIFT	ADJ.
03	S CORRECTION	ADJ.
04	V LINEARITY	ADJ.
05	H SIZE	ADJ.
06	PIN AMP	ADJ.
07	TILT	ADJ.
08	UPPER CORNER	ADJ.
09	LOWER CORNER	ADJ.
10	V BOW	ADJ.
11	ANGLE	ADJ.
12	HV COMP. V	13
13	HV COMP. H	8
14	FRAME SHIFT	OFF
15	FREE RUN 60 Hz	OFF
16	SYSTEM 60 Hz	OFF
17	ASPECT WIDE	OFF
18	DOUBLE SCAN	OFF
19	INTERLACE	ON
20	H SHIFT	32

Typical Value (OSD based) when receiving PAL Philips pattern.

TDA6612	ADJ.
Stereo-Separation	(30)

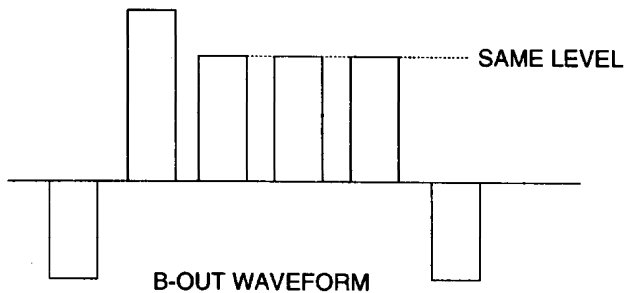
Should be adjusted twice 4:3 and 16:9 mode.

SUB BRIGHTNESS ADJUSTMENT

- 1. Input Phillips pattern.
- 2. Enter into service mode and press 23.
- 3. Adjust data so that 0-IRE of the grey scale and CUT-OFF 20-IRE glitter slightly.

SUB COLOR ADJUSTMENT

- 1. Input PAL color bar.
- 2. Connect an oscilloscope to CN0403 ③ pin (B IN) on the C board.
- 3. Enter into service mode and press 33 of TDA4780, SUB COLOR.
- 4. Adjust data so that the right sides of the waveform will be the same.



STEREO-SEPARATION ADJUSTMENT

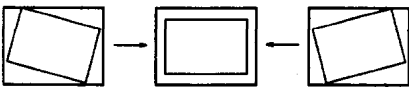
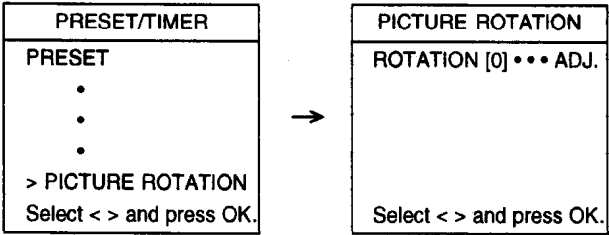
- 1. Input 1 kHz stereo signal to the L-ch and 400Hz stereo signal to the R-ch.
- 2. Enter into service mode.
- 3. Adjust data so that sound does not leak to the R-ch and the L-ch.

DRIVE AND CUT OFF

See direct test mode list attached and refer to sub brightness or such for adjustment method.

PICTURE ROTATION

- 1. Input PAL color bar.
- 2. Enter into service mode.
- 3. Press the **MENU** button of the commander to get the menu on screen.
- 4. Press the **2** and **3** buttons of the commander and move > to PRESET/TIMER.



# DEFLECTION SYSTEM ADJUSTMENT

1. Enter into service mode and select CXD2018.
2. Select and adjust each item in order to get an optimum image.

Item No.	Adjustment item	Data amount
01	V SIZE	ADJ.
02	V SHIFT	ADJ.
03	S CORRECTION	ADJ.
04	V LINEARITY	ADJ.
05	H SIZE	ADJ.
06	PIN AMP	ADJ.
07	TILT	ADJ.
08	UPPER CORNER	ADJ.
09	LOWER CORNER	ADJ.
10	V BOW	ADJ.
11	ANGLE	ADJ.
12	HV COMP. V	13
13	HV COMP. H	8
14	FRAME SHIFT	OFF
15	FREE RUN 60 Hz	OFF
16	SYSTEM 60 Hz	OFF
17	ASPECT WIDE	OFF
18	DOUBLE SCAM	OFF
19	NON INTERLACE	ON
20	H SHIFT	ADJ.
21	NS CORRECT 2R	ADJ.

## V SIZE



## V SHIFT



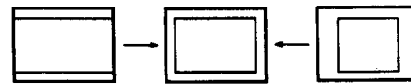
## S CORRECTION



## V LINEARITY



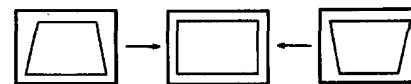
## H SIZE



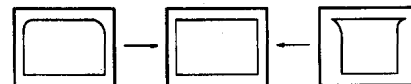
## PIN AMP



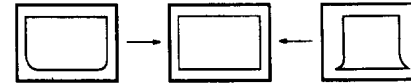
## TILT



## UPPER CORNER PIN



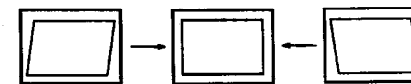
## LOWER CORNER PIN



## V BOW



## ANGLE



## H SHIFT

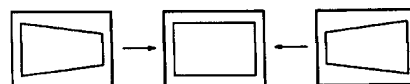


3. Press **OK** button to write the data.

If menu display may disturb the adjustment press **✕** to clear, to resume it, press **✕** again.

## NS CORRECT (RV1501)

(Adjust RV1501)



BELL FILTER ADJUSTMENT L3,L2

- 1. Input PHILIPS Signal.
- 2. Connect an oscilloscope to pin ⑮ of IC1.
- 3. Adjust L3 (Bell Filter) to get a flat chroma/smooth signal.  
(Photo ① for reference)
- 4. Connect an oscilloscope to pin ② of IC2.
- 5. Adjust L2 (B - Y) to get symmetrical transient between (R - Y) → (B - Y) and (B - Y) → (R - Y).  
(Photo ② for reference)
- 6. Connect pin ⑤ of CN2.
- 7. Confirm ID flip-flop output signal as below.

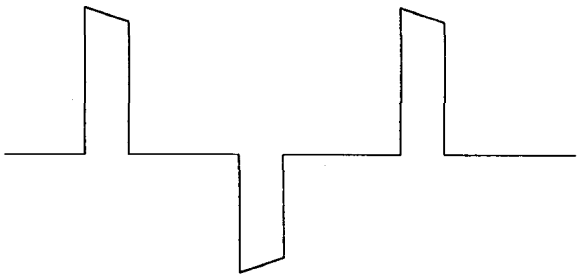


PHOTO ① BELL FILTER ADJUSTMENT (L3)

< MONITOR PIN ⑮ of IC1  
Connect

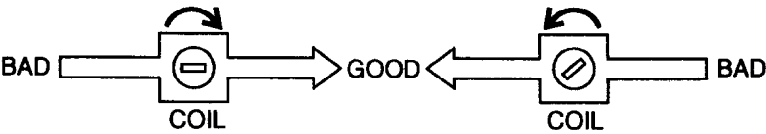
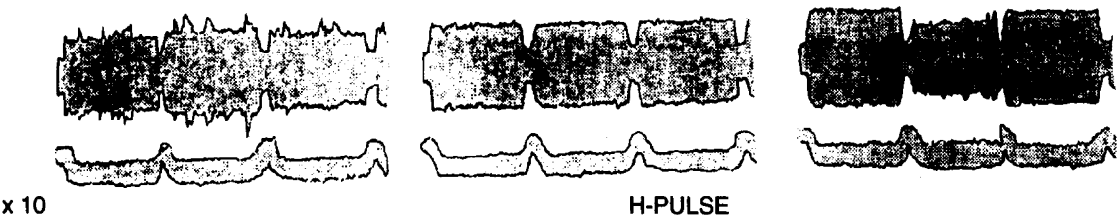
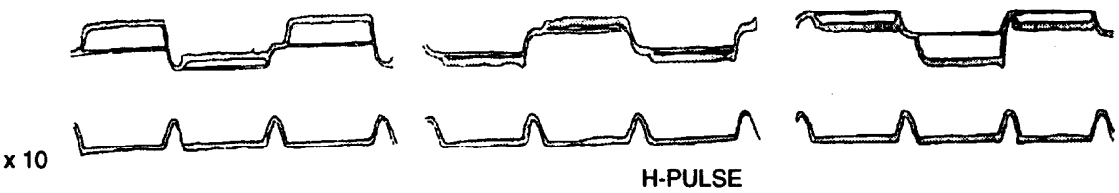


PHOTO ② COL BALANCE ADJUSTMENT (L2)

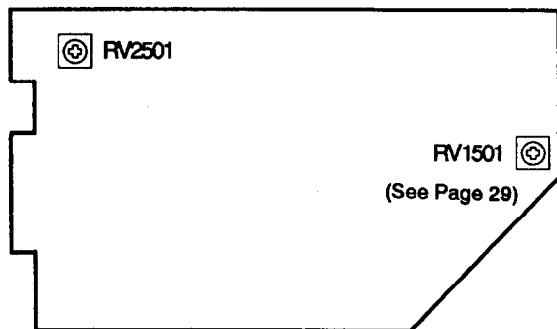
< MONITOR PIN ② of IC1



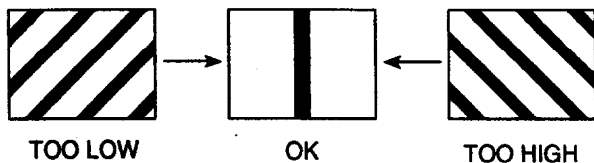
## 4-2. VOLUME ELECTRICAL ADJUSTMENTS

### H.FREQ ADJUSTMENT (RV2501)

#### D BOARD

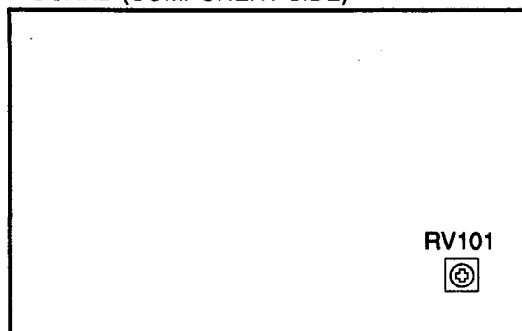


1. Input Philips pattern.
2. Add 100 $\mu$ F 16V capacitor in parallel with R2503, to make free run condition.
3. Adjust RV2501 to obtain frequency to 31.25Hz  $\pm$  50Hz.



### DET OUT ADJUSTMENT (RV101)

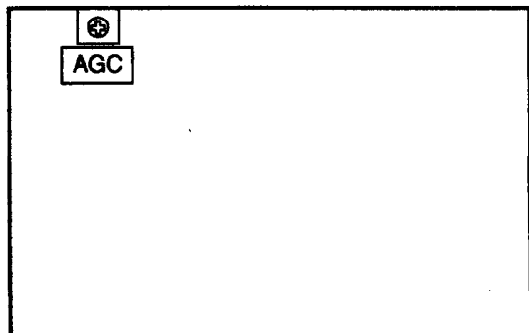
#### A BOARD (COMPONENT SIDE)



1. Input Philips pattern.
2. Adjust RV101 so that 1.0Vp-p can be obtained at ⑤ pin of CN109. (A BOARD)

### AGC ADJUSTMENT (IF BLOCK)

#### A BOARD



1. Receive off-air signal.
2. Adjust AGC VR so that there is no snow noise and cross-modulation.
3. Change receiving channel and confirm status.

### 4-3. TEST MODE 2:

Is available by pressing Test button two times, OSD "TT" appears. The functions described bellow are available by pressing the two numbers. To release the Test Mode 2, press two times 0, 10, 20 ... or switch TV in Standby Mode.

Holding tow Local Control buttons ( + and - ) pressed during Power ON will also switch in "TT" mode.

In TT mode, it is possible Speaker Off button. By pressing 2nd time the Speaker OFF button the menu will appear again. Function is kept even menu is not displayed!!

00	Switch TV back in normal mode - TT mode off
01	Direct access to Picture maximum
02	Direct access to Picture minimum
03	Set the Volume to 35% (Production request)
04	Set the Volume to 50% (Production request)
05	Set the Volume to 65% (Production request)
06	Set the Volume to 80% (Production request)
07	no function
08	Shipping Condition (Production request) To ensure that all TV sets leave the Production with the same presettings. Programme 1 is selected, AAV IN is set to AV1, AV Out is set to TV Out, Volume and HP Volume is set to 35%. Resolution is set to high. Format is set to 4:3. Pip is set to Top Left position,. Pip is switched off. TT mode is switched off, all analogue values are set to the reset setting (factory setting).
09	Language reset (Production request) With this function the "Language Byte" in the NVM (Bank 0AAH Adress 0DCH) is erased (set to 0FFH). The Language Menu appears now automatically when the TV set is switched ON as long as no new language is selected.
10	The TT number will be deleted. All numbers with 0 (10, 20, 30, 40) will reset the TT number. A new number can be selected. TT display is kept.
11	Direct access to Balance (Production request) With Cursor Up/Down the Balance can be controlled (w/o OSD, Menu display).
12	Direct access to Hue (Production request) With Cursor Up/Down the Balance can be controlled (w/o OSD, Menu display).
13	Display of Software Version and TV set configuration.
14	Adjustment of N/S correction

15	Read Factory setting from ROM (Programme Code) and store this data at Last Power Memory data location. (The previous last power memory data is overwritten). (For Service) AE2F has 3 packages of Analogue datas: 1. Last Power Memory data. This data is send continously to the corresponding IC's (TDA4686, TDA9145, TDA6612) with this data the TV picture/ sound appears. 2. Reset data. By pressing "Reset" in menu this data is transferd from Reset Data location to the Last Power data location in NVM. That means the previous Last Power Memory Data is overwritten by the Reset data. Last Power memory and Reset data are now the same. 3. Factory fixed data. In the ROM Code of micro processor are also analogue datas which are fixed (ROM can't be changed).
16	Save actual Last Power Memory data at Reset Data location. (the previous Reset datas are overwritten) (For Service)
15/16	With these two funcitons, it is possible to preset user defined Reset values (just TT 16) or to preset factory defined Reset values (first TT 15 then TT 16).
17	This funciton presets the Labels for the AV sources: The Labels are AV1, RGB, AV2, YC2, AV3, VC3, AV4, VC4. (Production request)
18	Text possible On/Off selection of Text (toggle function)
19	Direct access to Stereo Separation. With Cursor Up/Down command the Separation can be adjusted. (no need to select teh menu)

20	see TT10 In case of TT functions which give the possibility of "Direct access", the adjustment can be done with Cursor Up/Down commands. After releasing the selected TT function by TT 00 or other TT number the adjusted value is stored automatically.
21	no function
22	no function
23	no function
24	no function
25	no function
26	Text Character Set selection Char set 06 -> West Europe (see 9.24 Text Character Set)
27	Text Character Set selection Char set 38 -> East Europe (see 9.24 Text Character Set)
28	Text Character Set selection Char set 40 -> West Europe US English (see 9.24 Text Character Set)
29	Text Character Set selection Char set 55 -> West Europe Turkish (see 9.24 Text Character Set)
30	see TT10
31	Direct access to Red Gain [TDA4780]
32	Direct access to Green Gain [TDA4780]
33	Direct access to Blue Gain [TDA4780]
34	Reserved for TDA4780 Red Level Ref
35	Reserved for TDA4780 Green Level Ref
36	Reserved for TDA4780 Blue Level Ref
37	Direct access to Peak Drive Limit [TDA4780]
38	Direct access to Gamma Level [TDA4780]
39	no function
40	see TT10
41	TDA4780 is set to default data (almost Center positions)
42	TDA4780 is set to default data (almost Center positions)
43	TDA4780 is set to default data (almost Center positions)
44	ECO 2 is set to default data.
45	Set NVM to Protect mode (Bank 0AEH Adr. 0FFH write with 0)

46	IR Channel Presetting Mode The channel presetting can be done by a Special IR Transmitter.  Sequence: TT46 -> -- PR Number select display appears Select Prog. No. from where the channels shall be stored. --> Now TV is waiting for IR sequence. <-- --> If no IR transmission starts TT46 is released after 20sec. <--  ! NOTE: when TT46 is active, any IR transmission will be interpreted as PROG Data!
47	Adjustment of MPIP MultiPIP horizontal position
48	Adjustment of MPIP MultiPIP vertical position After using TT49 a complete new adjustment is necessary !!!
49	The EEPROM Testbyte is erased. After Power OFF -> ON the complete EEPROM data (except channel tables) are overwritten. EEPROM Protection Byte is set to 0 - protection mode.

Note: For No. 35 / 36 / 37 / 38 special pressing (AKB, forced Color Mode, Trap) is selected.

After selecting a new Test Mode Number, the AKB is switched ON, the Trap is switched On and TDA9145 is switched to Auto Search Mode.

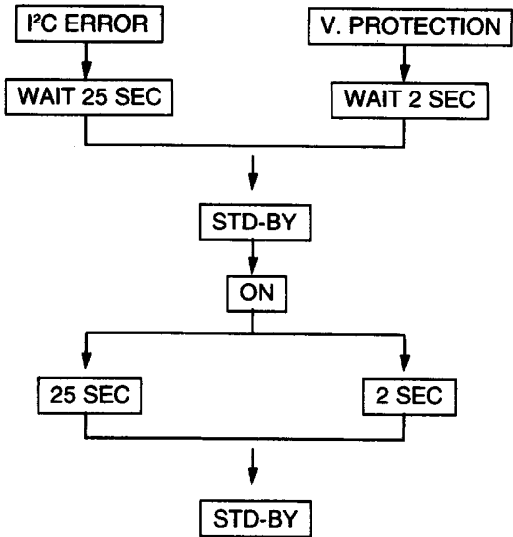
Note: Functions TT 41 / 42 / 43 / 44 are only available when PR 99 is selected, to avoid inadvertently usage. These functions overwrite the complete data package for the selected IC in the EEPROM. After using one of these functions a complete new adjustment of the selected IC is necessary !!!!!

In Test Mode 2 the Menu display is switchable by Speaker-Off button.

4-4. ERROR MESSAGE

Self diagnos system can operates as follows.

- When MP can't get the acknowledge back from the device, LED starts flashing according to the table as attached.



In case of more errors in parallel, the blinking error shows max. Priority according to the error number (e.g. error 2 and error 5 appears together, then LEDs shows error 2).

TABLE OF ERRORS

ERROR COUNT	IC TYPE	FUNCTION
1	II C BUS	SDA low
2	NVM	EEPROM
3	SDA3202	Tuner PII
4	TDA9145	Colour decoder
5	TDA4780	RGB/Jungle
6	TDA6612	Sound processor
7	CXD2018	V deflection
8	CXA1545	AV switch
11	SDA5248	Text
13		V protection

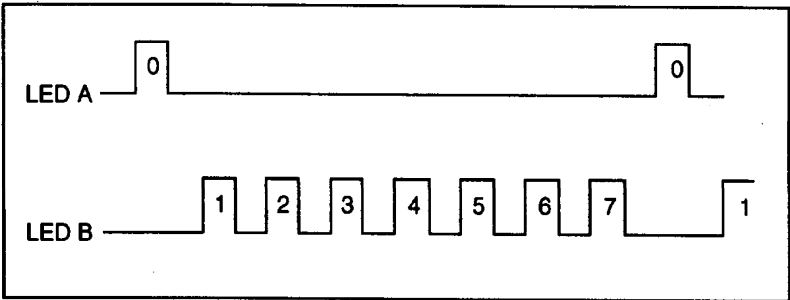
Stand by LED blinking

No IK return

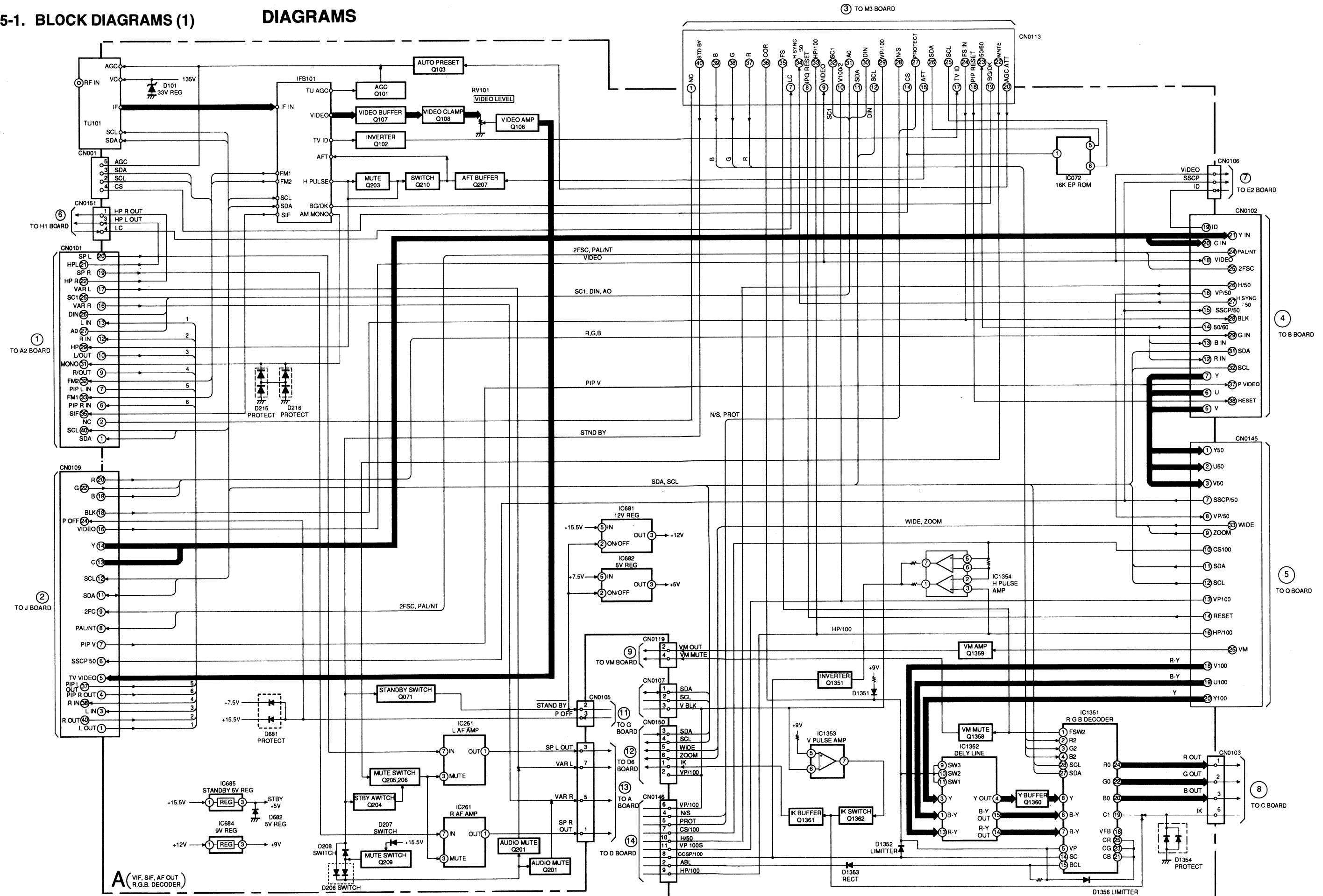
4-5. ERROR II C BUS DIAGNOSIS SYSTEM IN AE-2F CHASSIS

For all ICs in AE- 2F chassis which are necessary to get picture and sound there is a built in error I²C Bus diagnosis system.

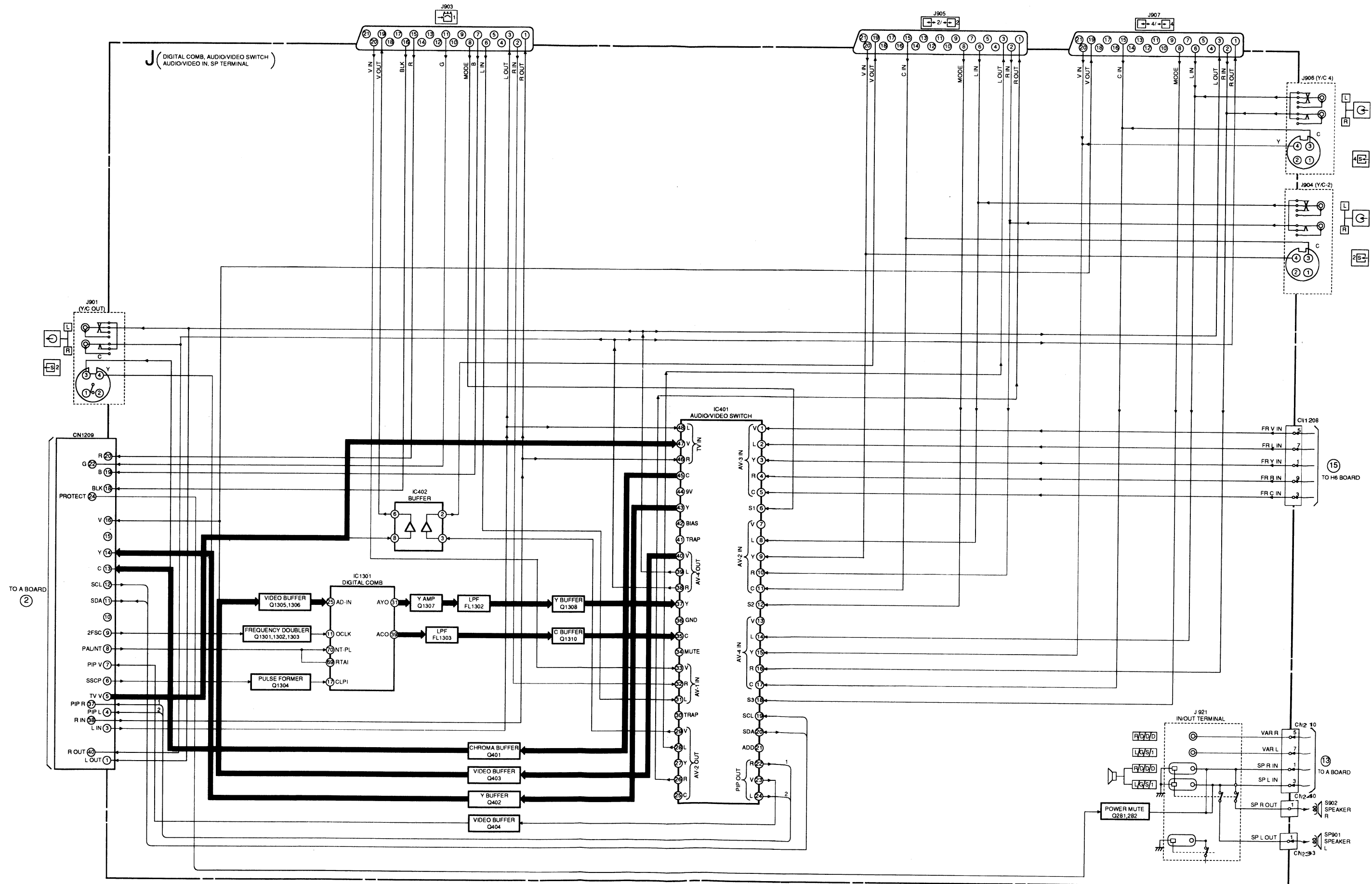
In case of no acknowledge bit, LED A and LED B starts blinking as shown.



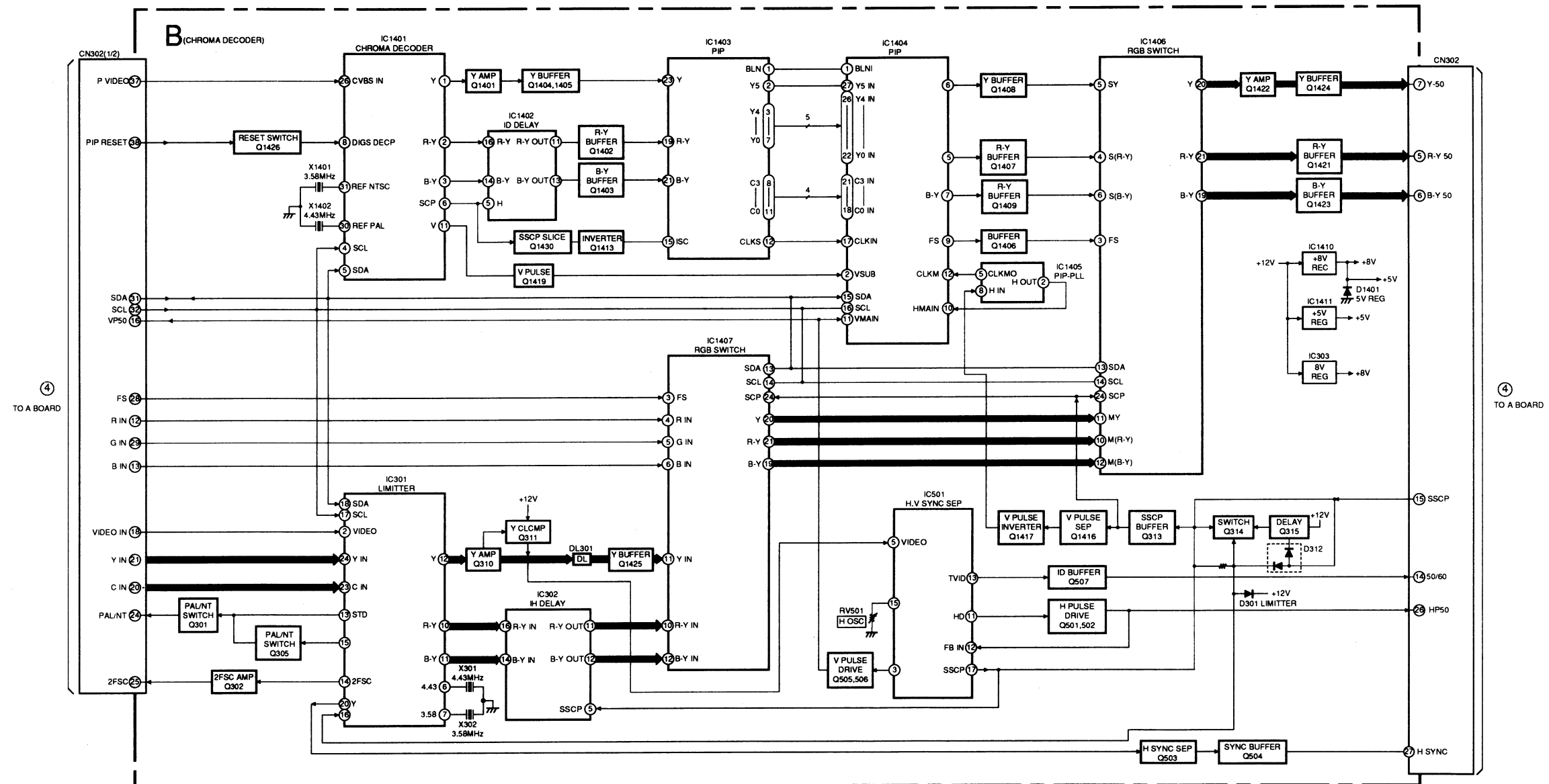
## 5-1. BLOCK DIAGRAMS (1)

SECTION 5  
DIAGRAMS

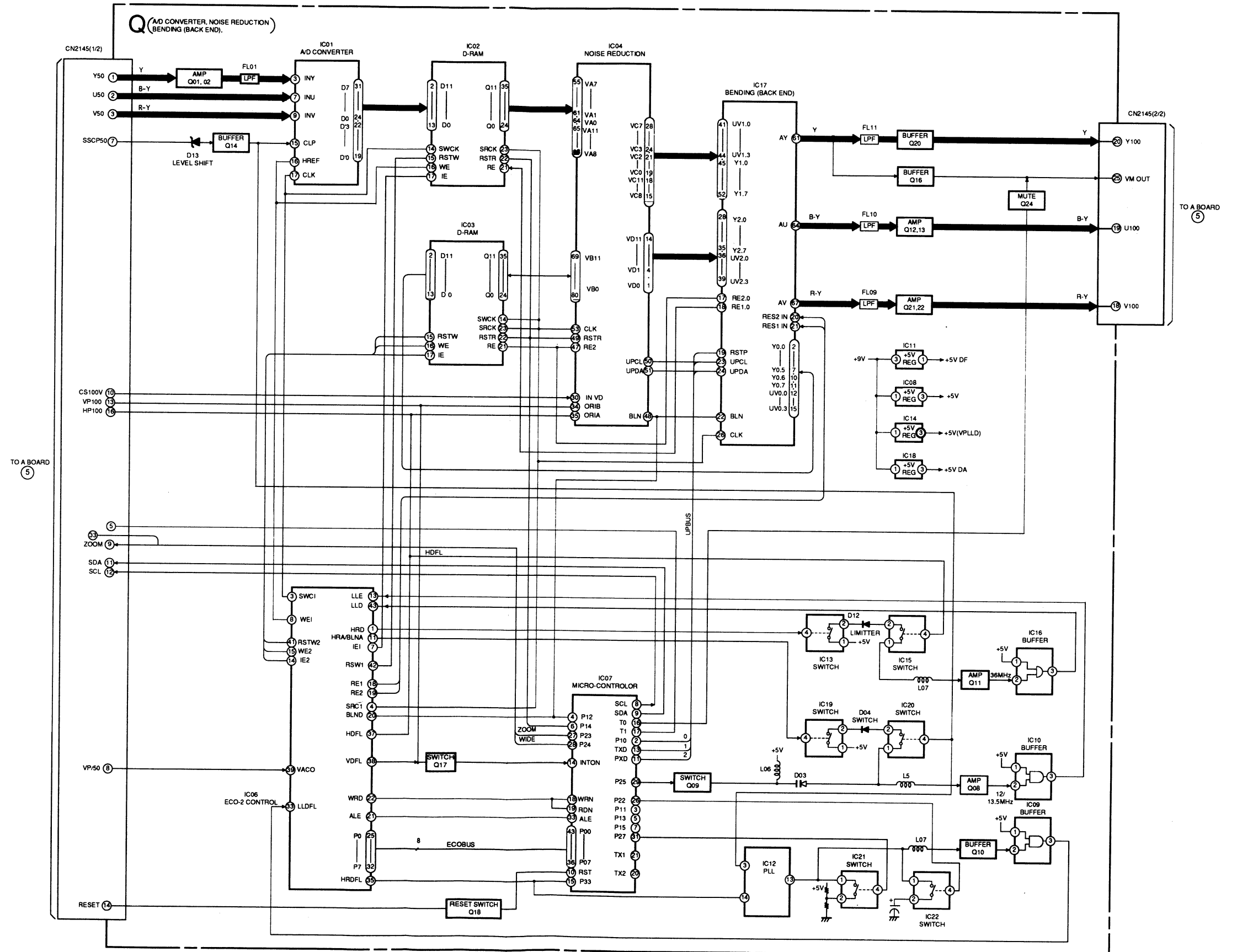
## BLOCK DIAGRAMS (2)



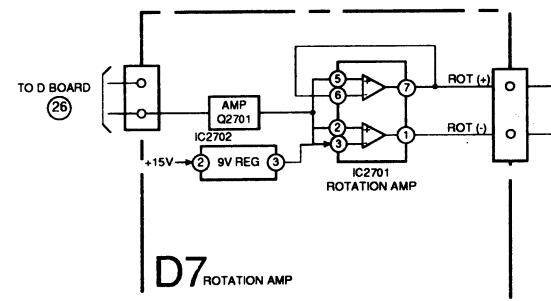
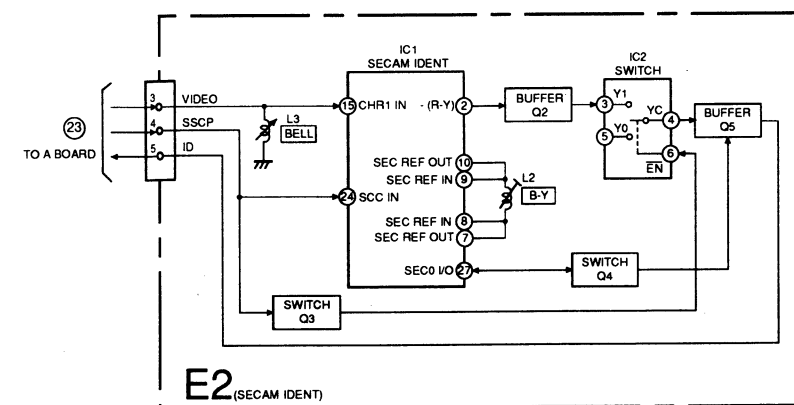
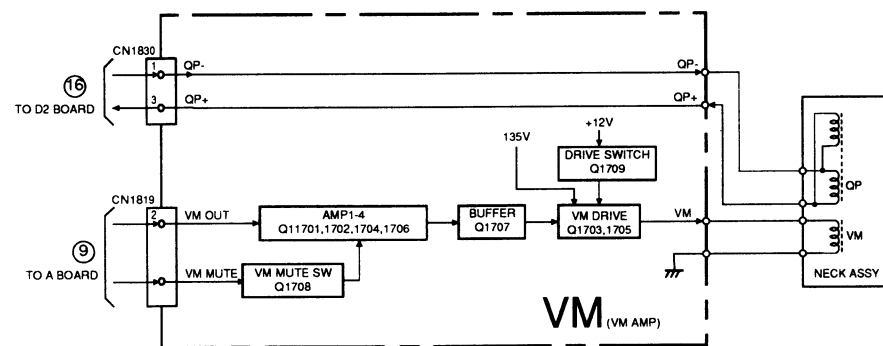
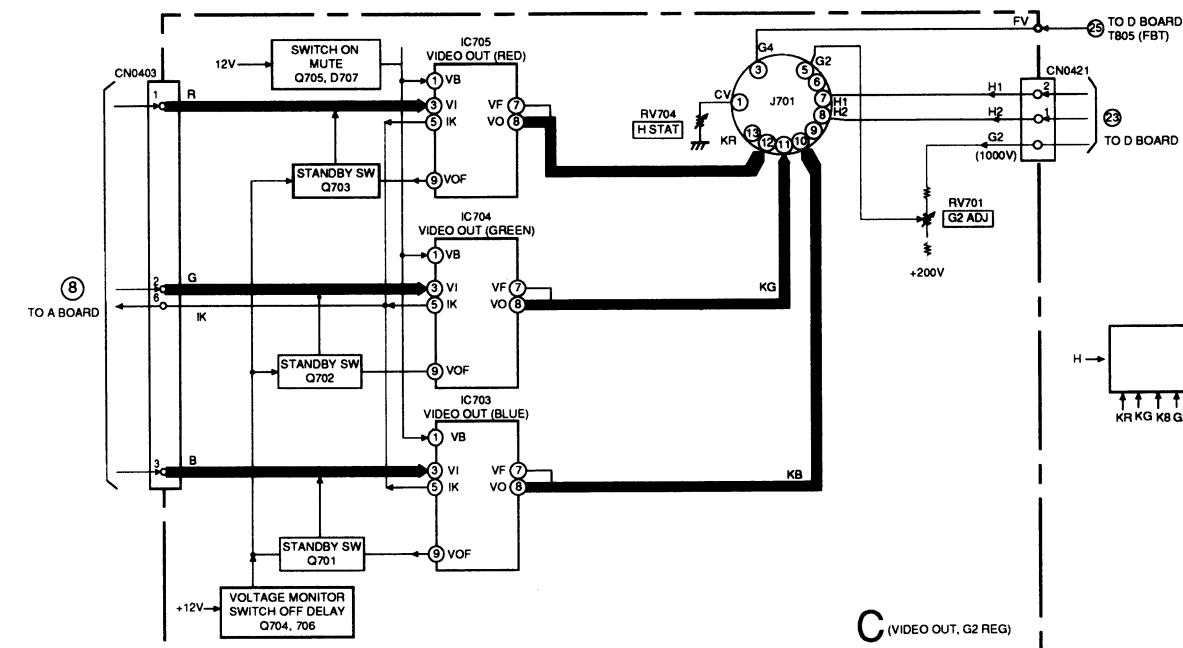
### BLOCK DIAGRAMS (3)



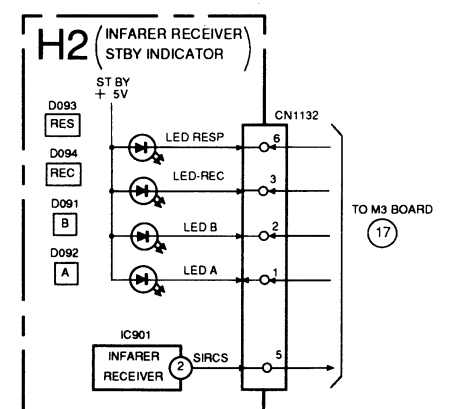
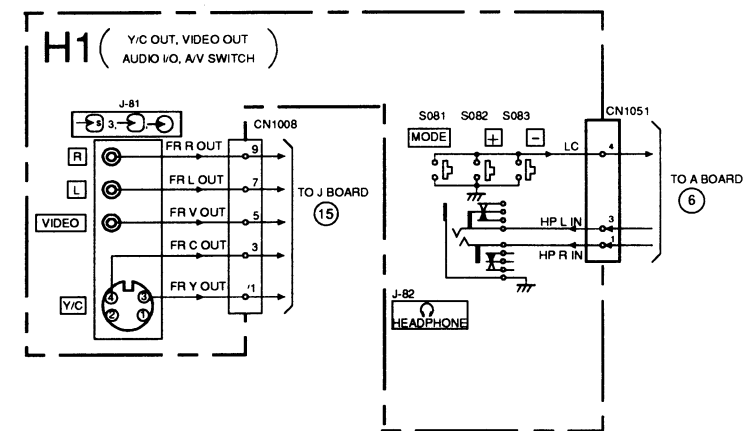
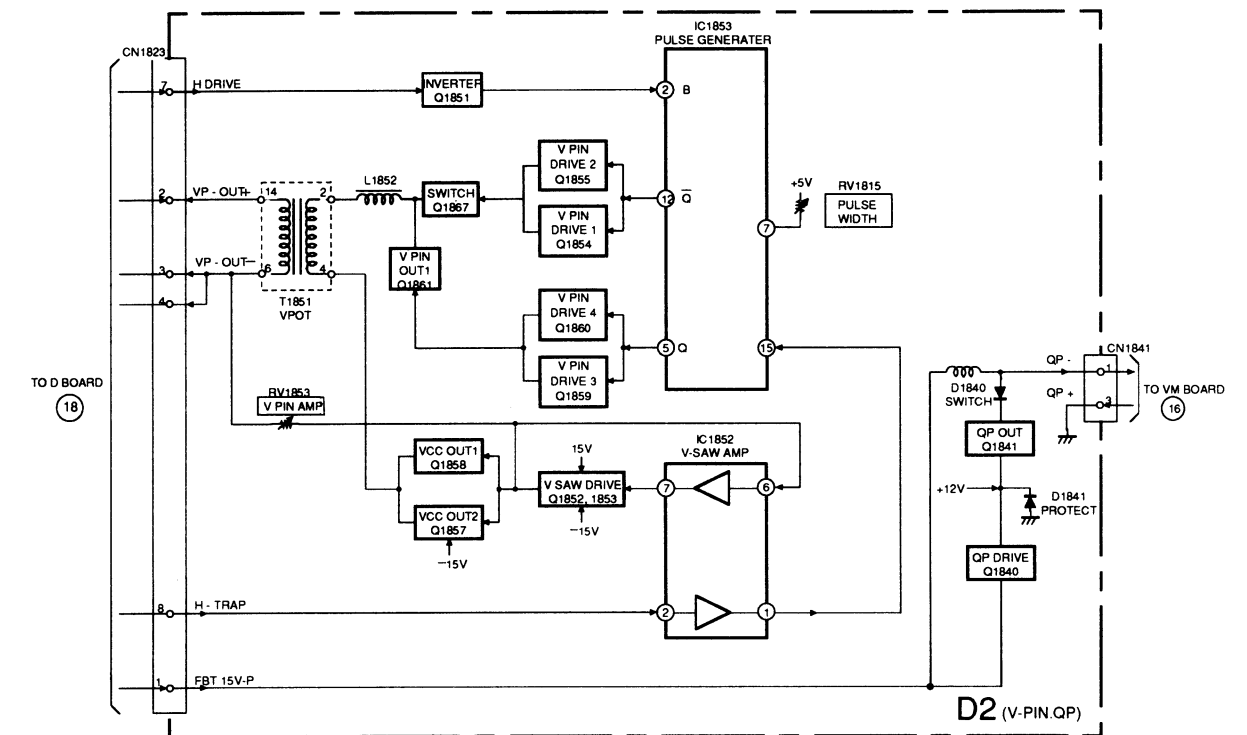
## BLOCK DIAGRAMS (4)



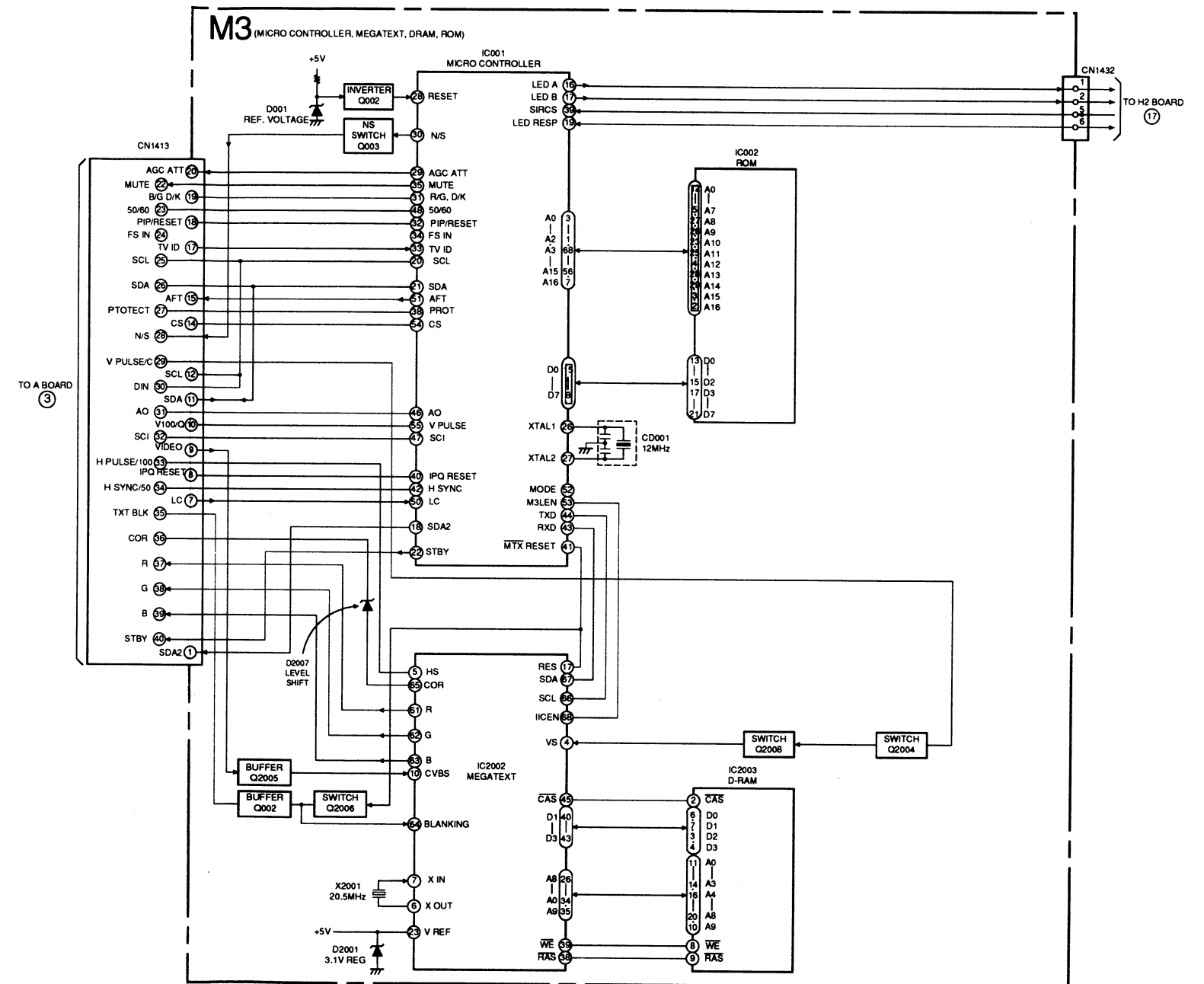
## BLOCK DIAGRAMS (5)



## BLOCK DIAGRAMS (6)



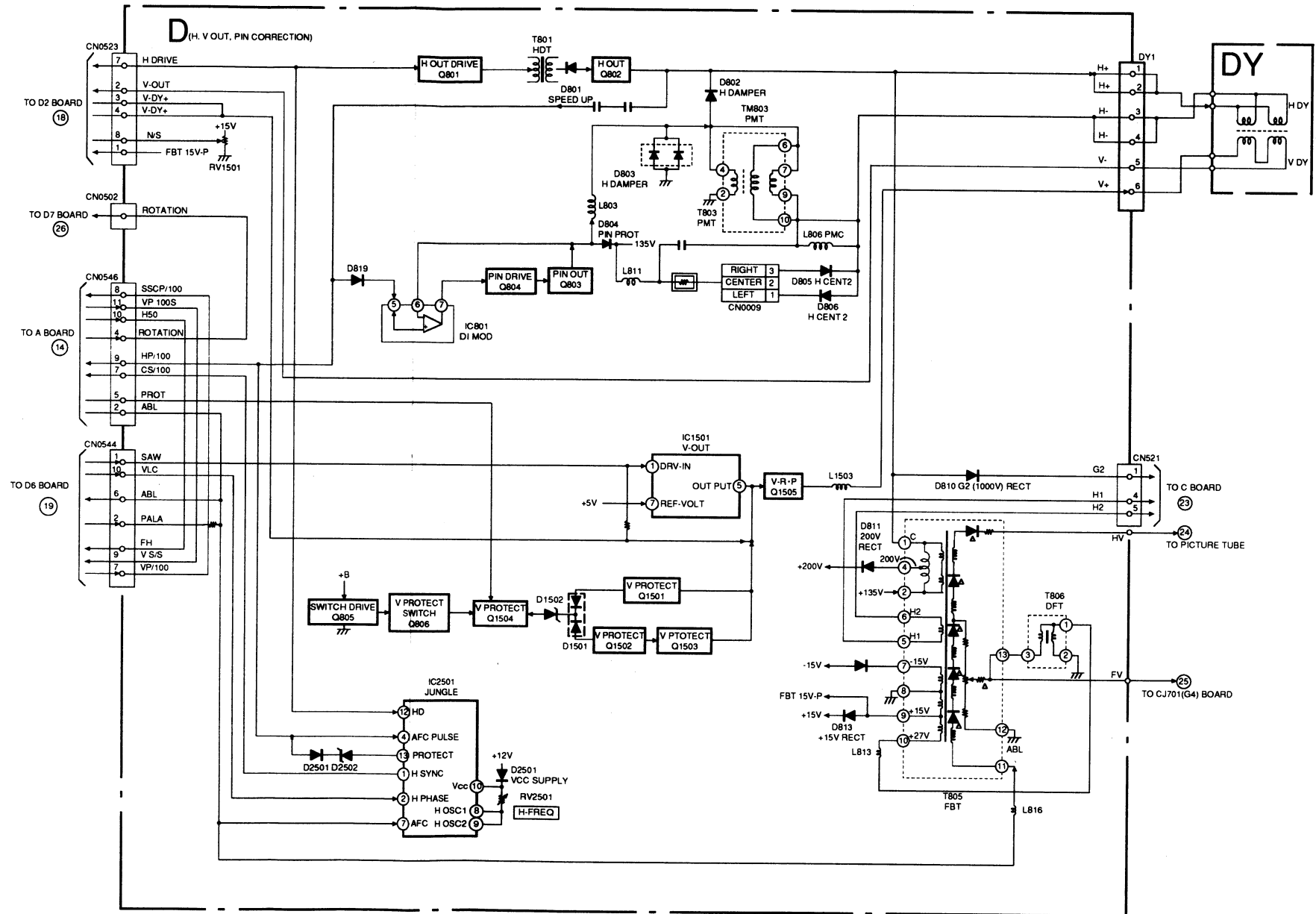
BLOCK DIAGRAMS (7)



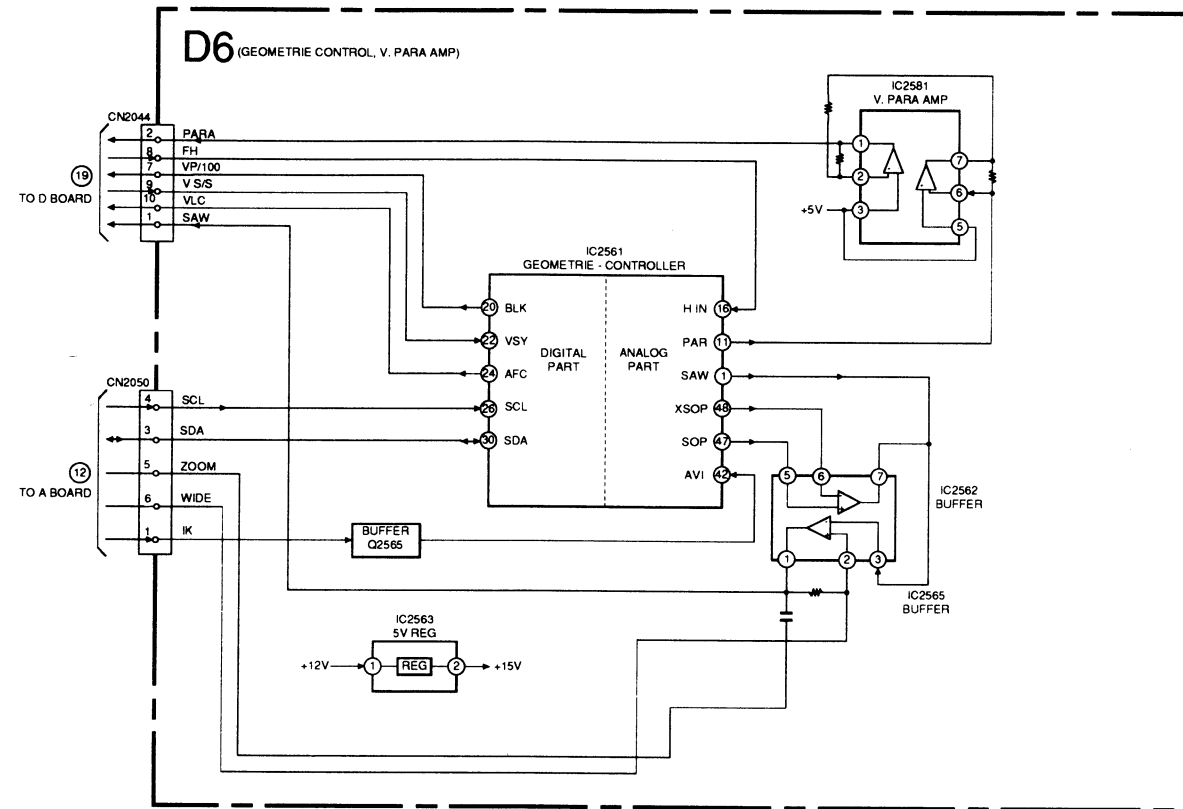
## BLOCK DIAGRAMS (8)



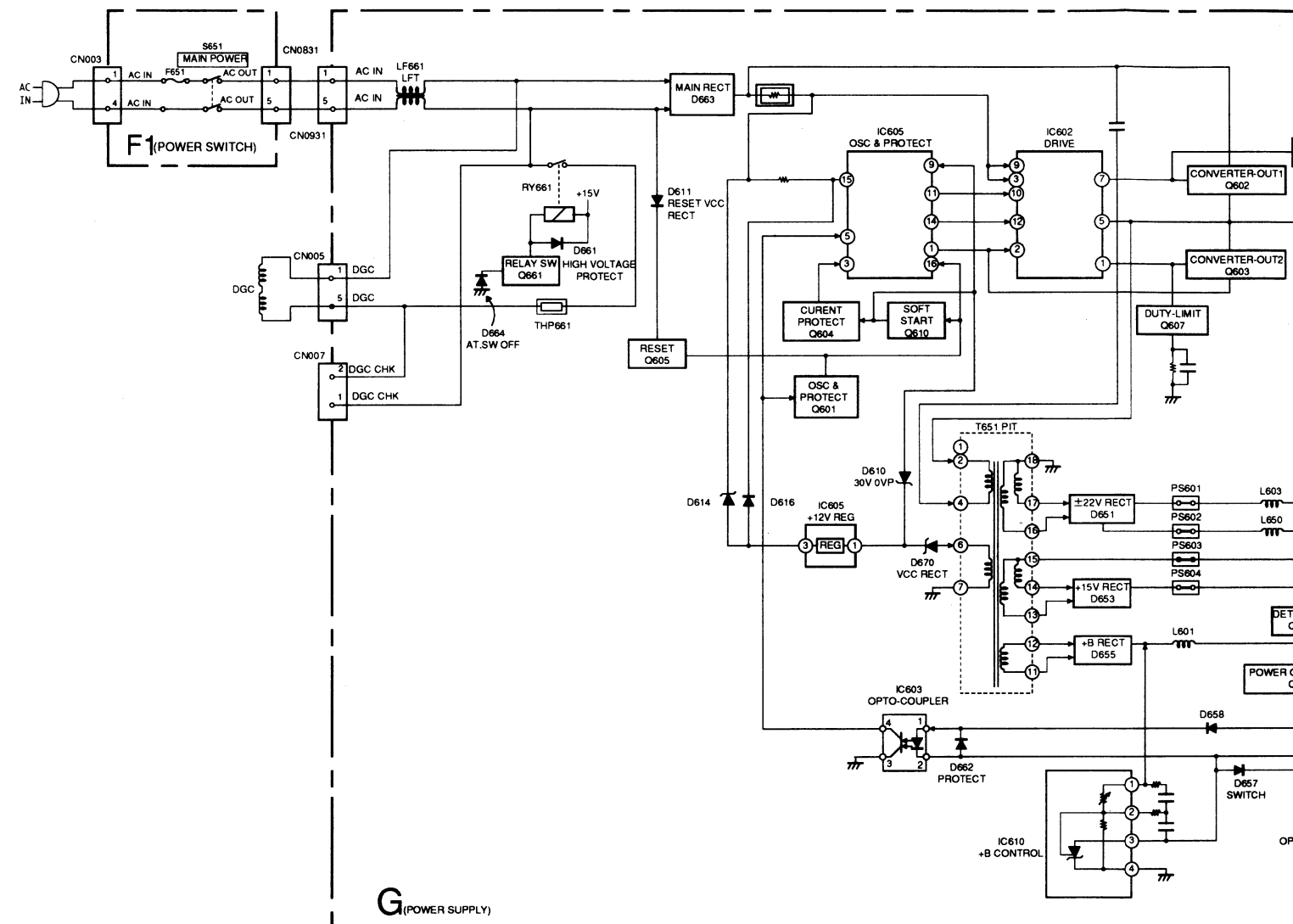
## BLOCK DIAGRAMS (9)

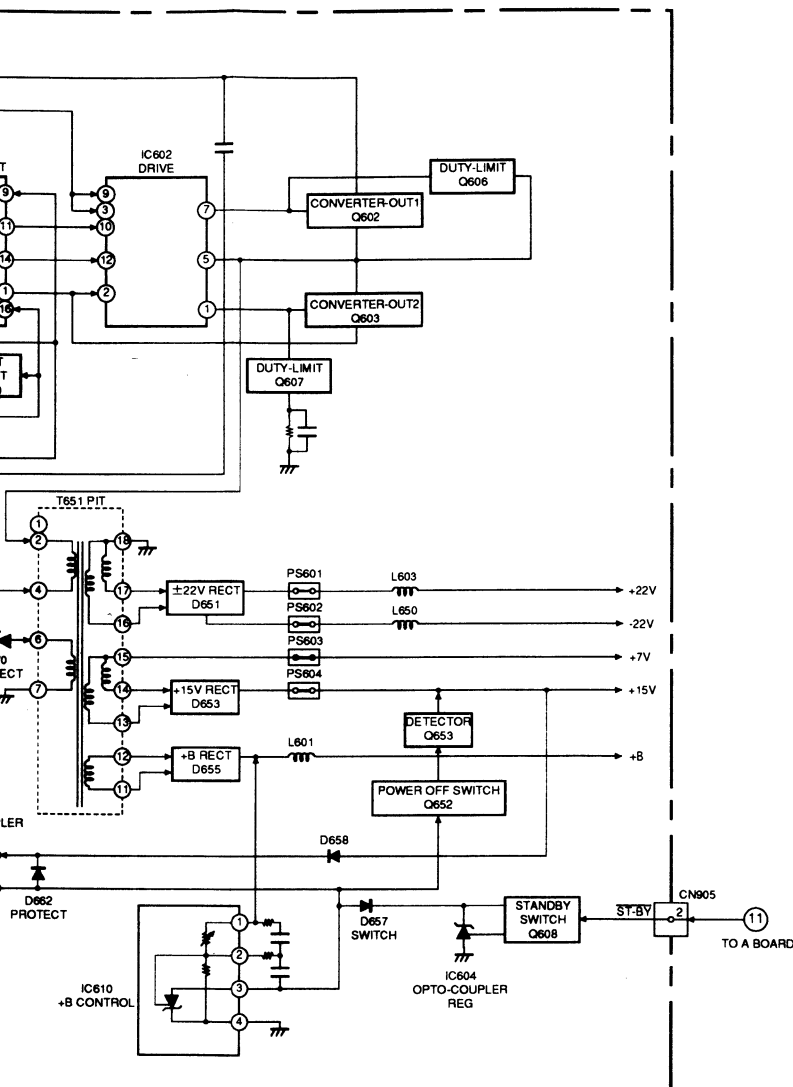


### BLOCK DIAGRAMS (10)

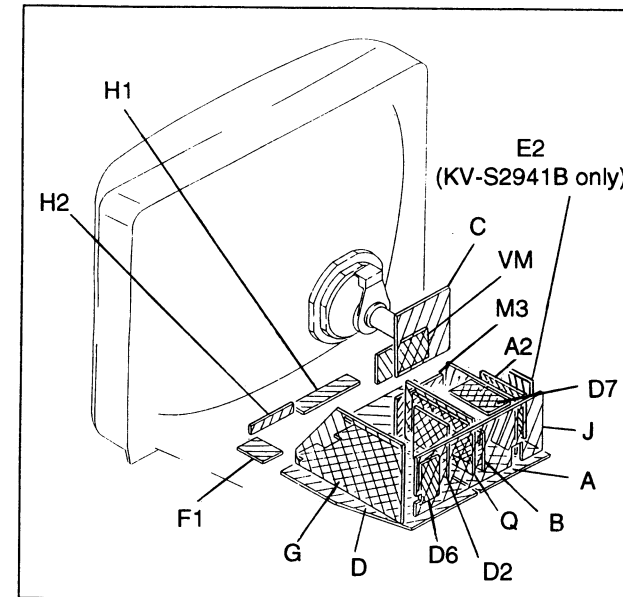


## BLOCK DIAGRAMS (11)





## 5-2. CIRCUIT BOARDS LOCATION



## 5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

### Note:

- All capacitors are in  $\mu\text{F}$  unless otherwise noted.  
pF:  $\mu\text{F}$  50WV or less are not indicated except for electrolytic and tantalums.
- All electrolytics are in 50V unless otherwise specified.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm  
Rating electrical power 1/4W

- Chips resistors are 1/10W.
- All resistors are in ohms.  
 $k\Omega=1000\Omega$ ,  $M\Omega=1000K\Omega$
- : nonflammable resistor.
- : fusible resistor.
- $\Delta$ : internal component.
- : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : earth-ground. (cool)
- : earth-chassis. (hot)

- All voltages are in V.
- Voltage are dc with respect to ground unless otherwise noted.
- Readings are taken with a 10  $M\Omega$  digital multimeter.
- Readings are taken with a PALcolour-bar signal input.
- Voltage variations may be noted due to normal production tolerance.
- Circled numbers are waveform references.
- : B+ line.
- : B- line.
- : signal path.

### Reference Information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RW	NONFLAMMABLE WIREWOUND
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: *	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

### Note:

Components identified by shading and marked  $\Delta$  are critical for safety. Replace only with the part number specified.

### Note:

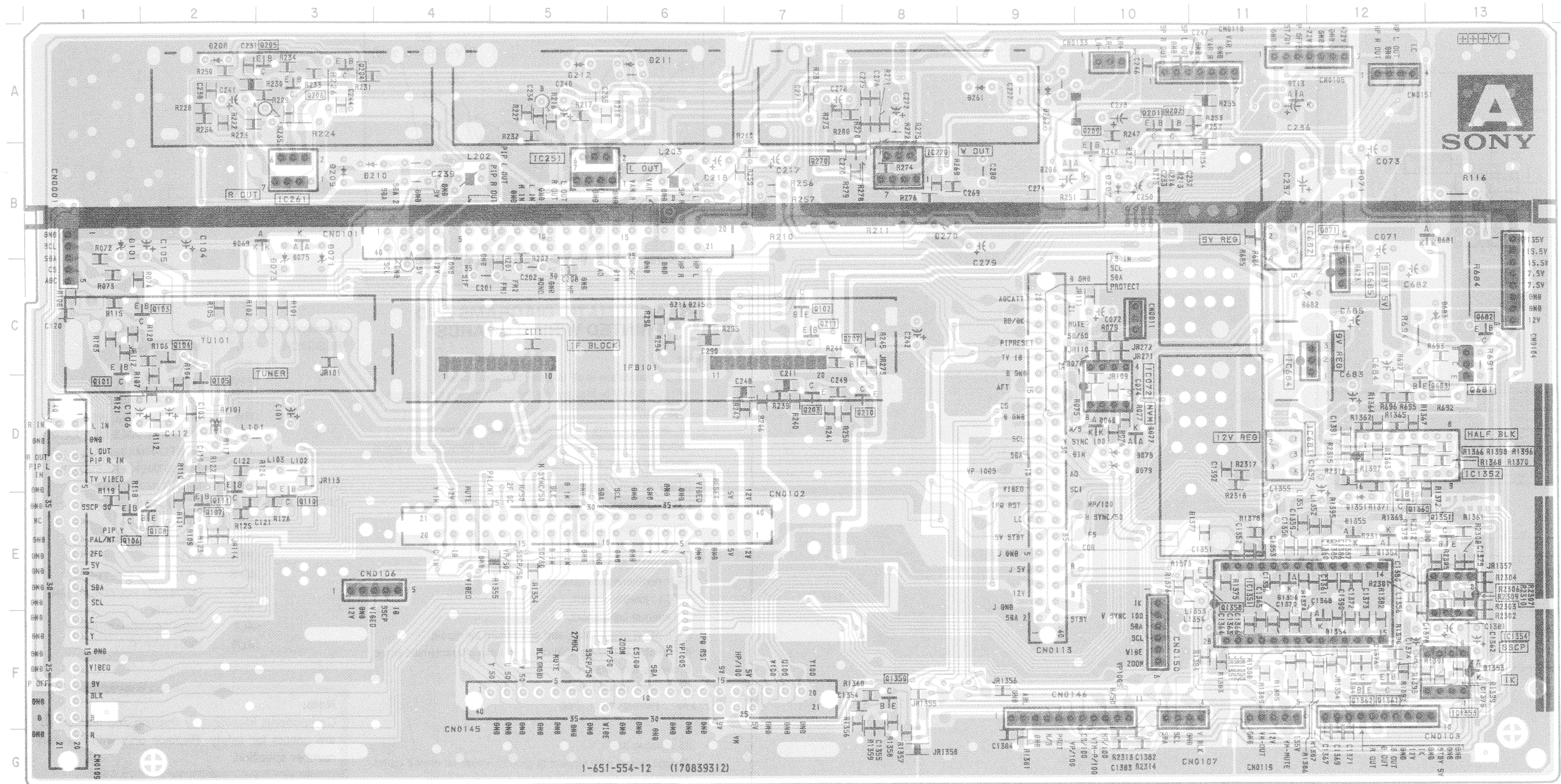
Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

A

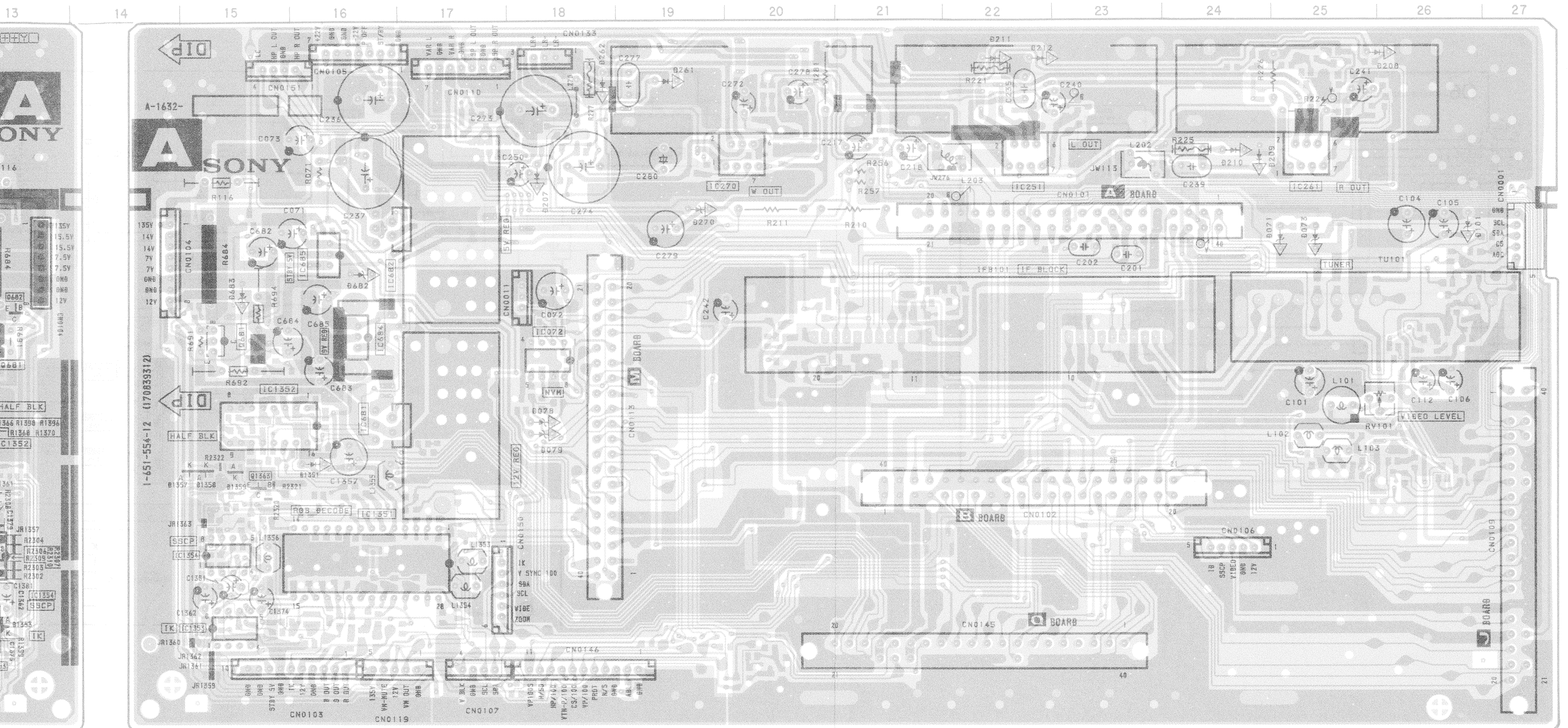
[TUNER, SIF, VIF, RGB RECORDER,  
V PULSE AMP, AUDIO AMP]

— A Board — &lt;Conductor Side&gt;

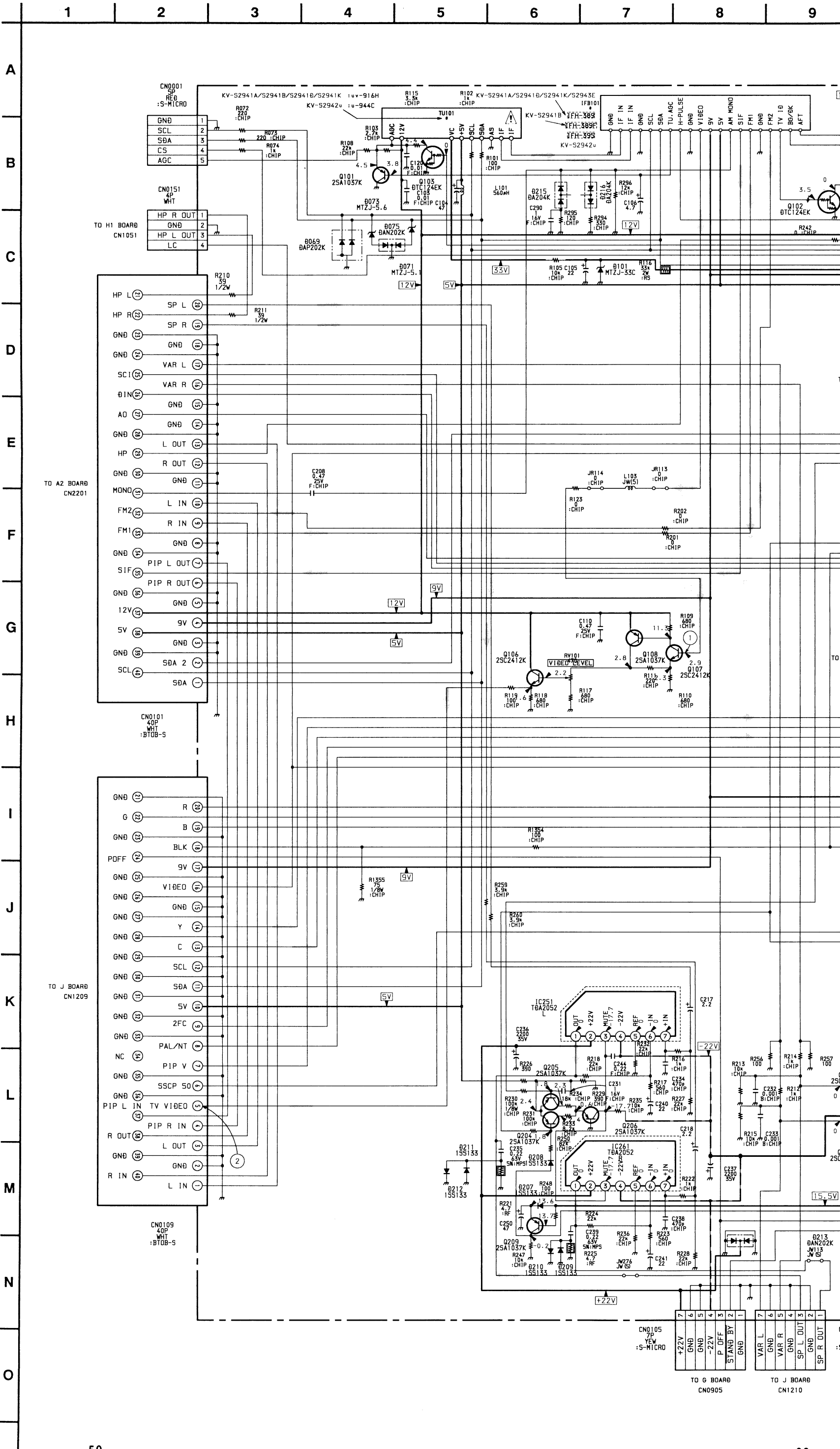
— A Board —



— A Board — <Component Side>

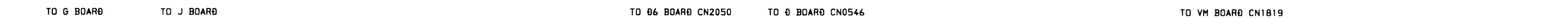


-  : Pattern from the side which enables seeing.
-  : Pattern of the rear side.



— A Board —

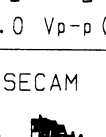
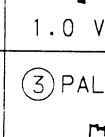
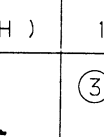



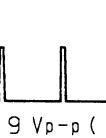

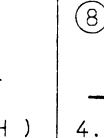
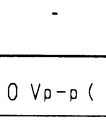
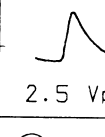
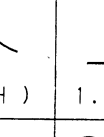
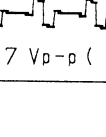
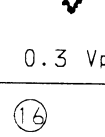
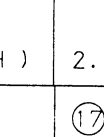
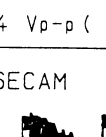
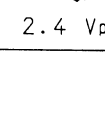
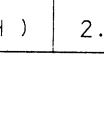



IC	DIODE
IC072 D-10	D068 D-10
IC251 B-5	D069 B-3
IC261 B-3	D071 B-3
IC270 B-8	D073 B-3
IC681 D-11	D075 B-3
IC682 B-11	D077 D-10
IC684 C-11	D078 D-10
IC685 C-12	D079 D-10
IC1351 E-11	D101 B-1
IC1352 D-12	D206 B-9
IC1353 F-13	D207 B-10
IC1354 E-13	D208 A-2
	D209 B-3
	D210 B-3
	D211 A-6
	D212 A-5
	D213 A-11
	D215 C-6
	D216 C-6
	D261 A-9
	D262 A-9
	D270 B-8
	D681 B-13
	D682 C-11
	D683 C-12
	D1351 E-11
	D1352 E-12
	D1353 F-13
	D1354 F-12
	D1355 E-12
	D1356 E-11
	D1357 E-15
	D1358 E-15
	D1359 E-15
TRANSISTOR	
Q071 B-12	
Q101 C-1	
Q102 D-7	
Q103 C-2	
Q106 E-1	
Q107 E-2	
Q108 E-2	
Q201 A-10	
Q202 A-10	
Q203 D-7	
Q204 A-3	
Q205 A-3	
Q206 A-3	
Q207 D-8	
Q209 B-10	
Q210 D-8	
Q270 B-7	
Q681 C-13	
Q682 C-13	
D683 D-12	
Q1351 E-13	
Q1358 E-11	
Q1359 F-8	
Q1360 E-12	
Q1361 F-12	
Q1362 F-12	
Q1363 E-15	
VARIABLE RESISTOR	
RV101 D-2	



— A Board —

Ref. No.	Name	Function	Ref. No.	
IC072	ST24C16CB1	16K EPROM	D068	DA
IC251	TDA2052	AF AMP L	D069	DA
IC261	TDA2052	AF AMP R	D071	MIJ
IC270	TDA2052	AUDIO AMP F SUB WOOFER	D073	MIJ
IC681	SI3120CA	12V REG	D075	DA
IC682	SI3050CA	5V REG	D077	DA
IC684	MC7809CT	9V REG	D078	MT
IC685	TEA7605	STDBY 5V REG	D079	MT
IC1351	TDA4780	RGB DECODER	D101	MT
IC1352	MC74HC4053N	DELAY LINE	D206	DA
IC1353	BA4558	V PULSE AMP	D207	1SS
IC1354	LM393P	H PULSE AMP	D208	1SS
			D209	1SS
Q071	DTC124EK	STANDBY SWITCH	D210	1SS
Q101	2SA1037K	AGC	D211	1SS
Q102	DTC124EK	INVERTER	D212	1SS
Q103	DTC124EK	AUTO RESET	D213	DA
Q106	2SC2412K	VIDEO BUFFER	D215	DA
Q107	2SC2412K	VIDEO AMP	D216	DA
Q108	2SA1037K	VIDEO CLAMP	D261	1SS
Q201	2SC2412K	MUTE SWITCH	D262	1SS
Q202	2SC2412K	MUTE SWITCH	D270	MT
Q203	2SC2412K	H PULSE AMP	D681	DA
Q204	2SA1037K	STANDBY SWITCH	D682	MT
Q205	2SA1037K	MUTE SWITCH	D683	MT
Q206	2SA1037K	MUTE SWITCH	D1351	1SS
Q207	2SC2412K	AFT BUFFER	D1352	DA
Q209	2SA1037K	MUTE SWITCH	D1353	DA
Q210	2SC2412K	SWITCH	D1354	DA
Q270	2SC2412K	AUDIO MIX	D1355	DA
Q681	2SD774	REG SWITCH	D1356	DA
Q682	2SC2412K	REG SWITCH	D1357	DA
Q683	2SA1037K	REG SWITCH	D1358	DA
Q1351	2SC2412K	H PULSE BUFFER	D1359	DA
Q1358	2SA1037K	VM MUTE		
Q1359	2SC2412K	VM OUT		
Q1360	2SA1037K	Y BUFFER		
Q1361	2SA1037K	IK BUFFER		
Q1362	DTC114EK	IK SWITCH		
Q1363	2SC2412K	IK AMP		

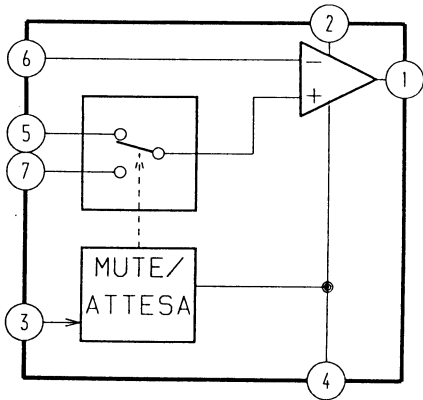
— A Board —

① PAL  1.0 V <sub>p-p</sub> (H)	① SECAM  1.0 V <sub>p-p</sub> (H)	② PAL  1.2 V <sub>p-p</sub> (H)
② SECAM  1.2 V <sub>p-p</sub> (H)	③ PAL  1.7 V <sub>p-p</sub> (H)	③ SECAM  1.8 V <sub>p-p</sub> (H)
④ PAL  1.7 V <sub>p-p</sub> (H)	④ SECAM  1.2 V <sub>p-p</sub> (H)	⑤  3.8 V <sub>p-p</sub> (V)
⑥  4.9 V <sub>p-p</sub> (H)	⑦  1.8 V <sub>p-p</sub> (H)	⑧  4.7 V <sub>p-p</sub> (V)
⑨  4.0 V <sub>p-p</sub> (V)	⑩  2.5 V <sub>p-p</sub> (H)	⑪  1.4 V <sub>p-p</sub> (H)
⑫  0.7 V <sub>p-p</sub> (H)	⑬  0.3 V <sub>p-p</sub> (H)	⑭  2.4 V <sub>p-p</sub> (H)
⑮  2.4 V <sub>p-p</sub> (H)	⑯  2.4 V <sub>p-p</sub> (H)	⑰ PAL  2.0 V <sub>p-p</sub> (H)
⑰ SECAM  2.0 V <sub>p-p</sub> (H)		

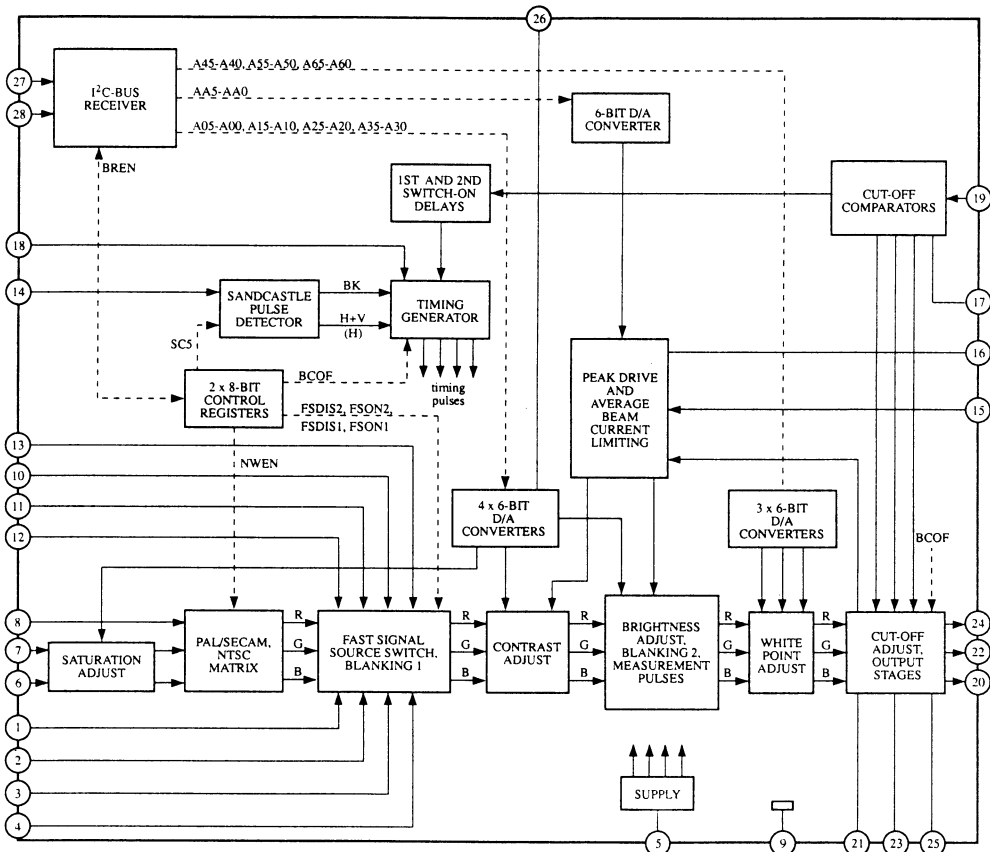
A Board

Ref. No.	Name	Function	Ref. No.	Name	Function
IC072	ST24C16CB1	16K EPROM	D068	DAP202K	PROTECTOR
IC251	TDA2052	AF AMP L	D069	DAP202K	PROTECTOR
IC261	TDA2052	AF AMP R	D071	MIJZ-T-77-5,6B	PROTECTOR
IC270	TDA2052	AUDIO AMP F SUB WOOFER	D073	MIJZ-T-77-5,6B	PROTECTOR
IC681	SI3120CA	12V REG	D075	DAN202K	PROTECTOR
IC682	SI3050CA	5V REG	D077	DAN202K	PROTECTOR
IC684	MC7809CT	9V REG	D078	MTJZ-T-77-5,6B	PROTECTOR
IC685	TEA7605	STDBY 5V REG	D079	MTJZ-T-77-5,6B	PROTECTOR
IC1351	TDA4780	RGB DECODER	D101	MTZJ-T-77-33C	+33V REG
IC1352	MC74HC4053N	DELAY LINE	D206	DAN202K	MUTE
IC1353	BA4558	V PULSE AMP	D207	1SS133T	SWITCH
IC1354	LM393P	H PULSE AMP	D208	1SS133T	SWITCH
			D209	1SS133T	PROTECT
Q071	DTC124EK	STANDBY SWITCH	D210	1SS133T	PROTECT
Q101	2SA1037K	AGC	D211	1SS133T	PROTECT
Q102	DTC124EK	INVERTER	D212	1SS133T	PROTECT
Q103	DTC124EK	AUTO RESET	D213	DAN202K	PROTECT
Q106	2SC2412K	VIDEO BUFFER	D215	DA204K	PROTECT
Q107	2SC2412K	VIDEO AMP	D216	DA204K	PROTECT
Q108	2SA1037K	VIDEO CLAMP	D261	1SS133T	PROTECT
Q201	2SC2412K	MUTE SWITCH	D262	1SS133T	PROTECT
Q202	2SC2412K	MUTE SWITCH	D270	MTZJ-T-77-9,1	PROTECT
Q203	2SC2412K	H PULSE AMP	D681	DAP202K	PROTECT
Q204	2SA1037K	STANDBY SWITCH	D682	MTZJ-T-77-7,5A	5V REG REF
Q205	2SA1037K	MUTE SWITCH	D683	MTZJ-J-77-5,6B	REF
Q206	2SA1037K	MUTE SWITCH	D1351	1SS133T	8V REG REF
Q207	2SC2412K	AFT BUFFER	D1352	DAN202K	LIMITER
Q209	2SA1037K	MUTE SWITCH	D1353	DAN202K	RECT
Q210	2SC2412K	SWITCH	D1354	DAN202K	PROTECT
Q270	2SC2412K	AUDIO MIX	D1355	DAN202K	SWITCH
Q681	2SD774	REG SWITCH	D1356	DAN202K	LIMITER
Q682	2SC2412K	REG SWITCH	D1357	DAN202K	LIMITER
Q683	2SA1037K	REG SWITCH	D1358	DAN202K	LIMITER
Q1351	2SC2412K	H PULSE BUFFER	D1359	DAN202K	SWITCH
Q1358	2SA1037K	VM MUTE			
Q1359	2SC2412K	VM OUT			
Q1360	2SA1037K	Y BUFFER			
Q1361	2SA1037K	IK BUFFER			
Q1362	DTC114EK	IK SWITCH			
Q1363	2SC2412K	IK AMP			

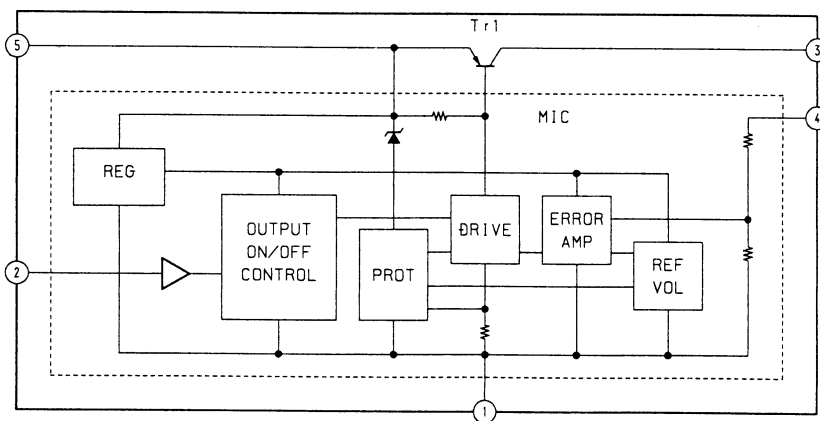
A BOARD IC251,261,270 TDA2052



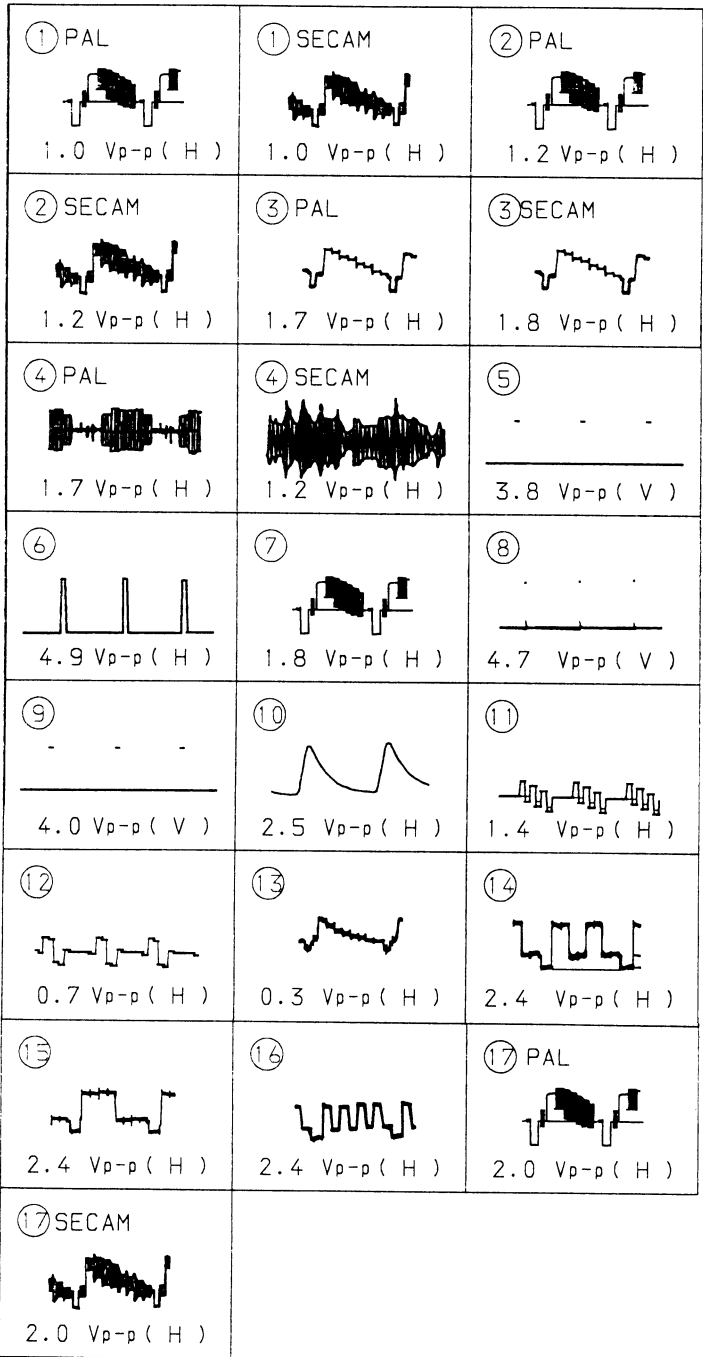
A BOARD IC1351 TDA4780



A BOARD IC681 SI3120CA



A Board

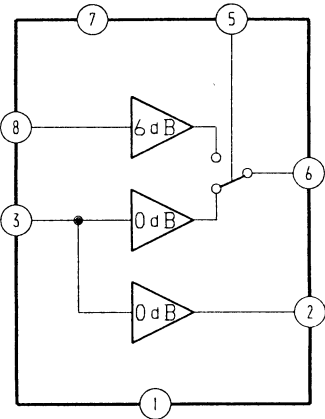


Schematic diagram

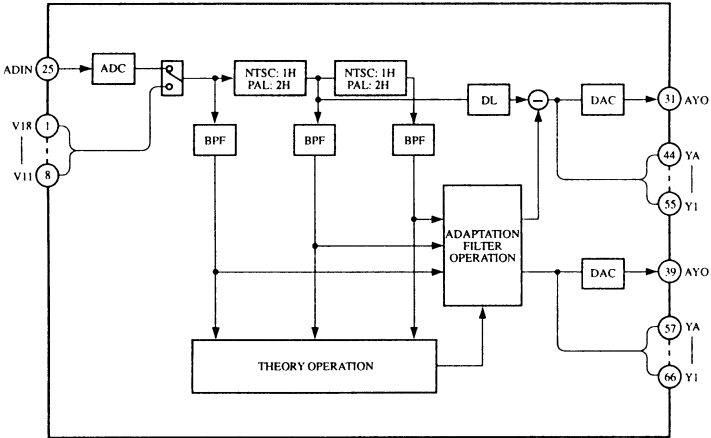
Schematic diagram

	1	2
A		
B		
C		
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
N		
O		

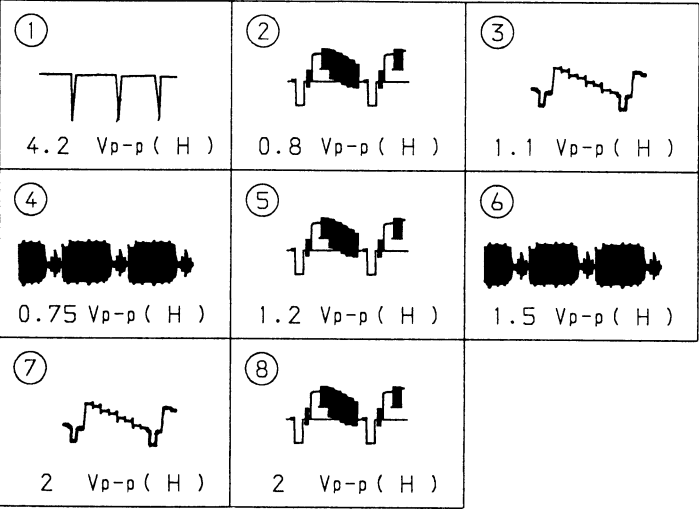
J BOARD IC402 TEA2114



J BOARD IC1301 CXD2024Q-TL



— J Board —



— J Board —

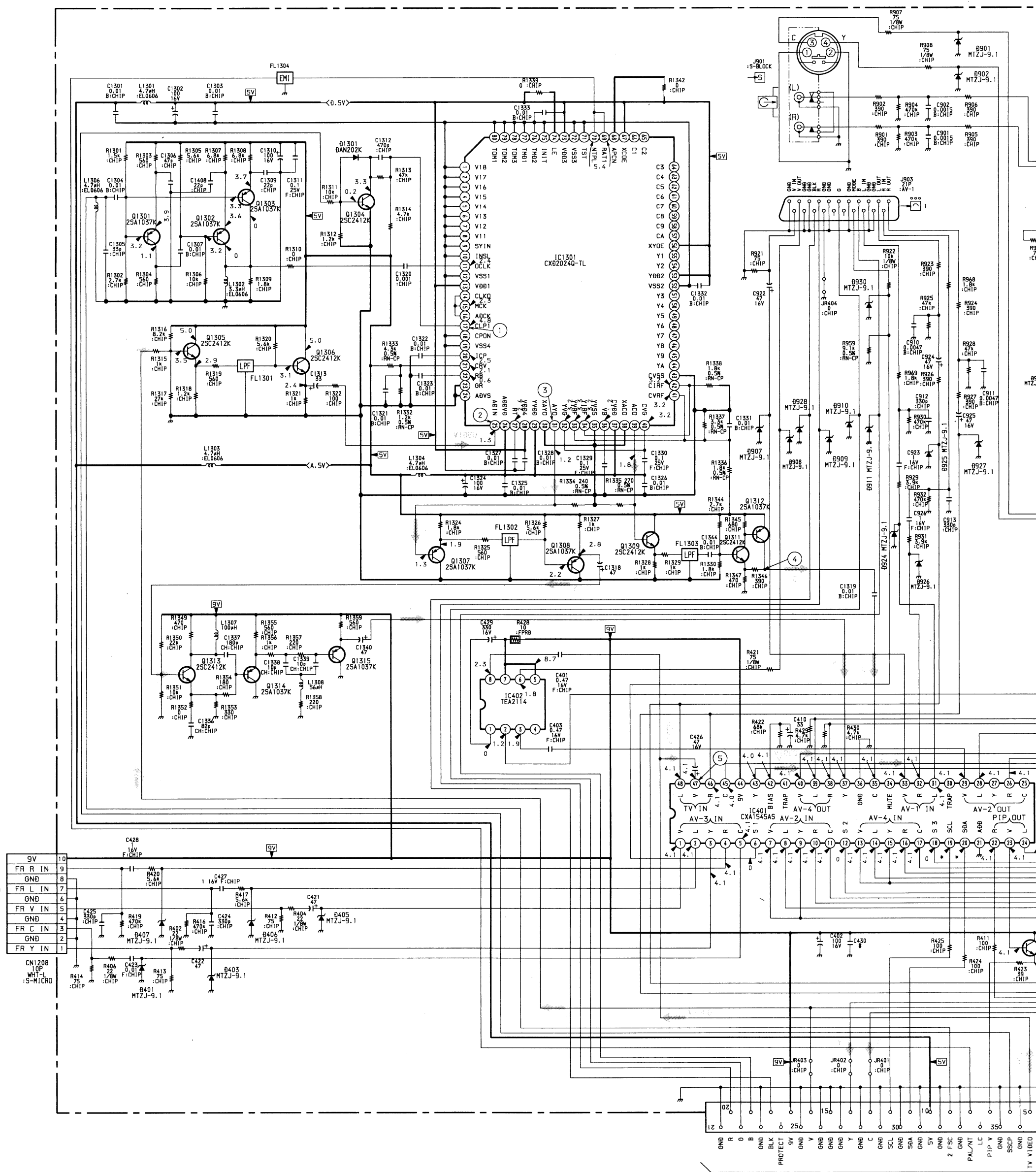
Ref. No.	Name	Function
IC401	CXA1545AS	A/V SWITCH
IC402	TEA2114	BUFFER
IC1301	CXD2024Q-TL	DIGITAL COMB
Q401	2SC2412K	CHROMA BUFFER
Q402	2SC2412K	Y BUFFER
Q403	2SC2412K	VIDEO BUFFER
Q404	2SC2412K	VIDEO BUFFER
Q1301	2SA1037K	FREQUENCY DOUBLER
Q1302	2SA1037K	FREQUENCY DOUBLER
Q1303	2SA1037K	FREQUENCY DOUBLER
Q1304	2SC2412K	PULSE FORMER
Q1305	2SC2412K	VIDEO BUFFER
Q1306	2SC2412K	VIDEO BUFFER
Q1307	2SA1037K	Y AMP
Q1308	2SA1037K	Y BUFFER
Q1309	2SC2412K	CHROMA AMP
Q1311	2SC2412K	CHROMA BUFFER
Q1312	2SA1037K	CLAMP
Q1313	2SC2412K	Y AMP
Q1314	2SA1037K	Y BUFFER
Q1315	2SA1037K	Y BUFFER
D401	MTZJ-9.1	PROTECTOR
D403	MTZJ-9.1	PROTECTOR
D405	MTZJ-9.1	PROTECTOR
D406	MTZJ-9.1	PROTECTOR
D407	MTZJ-9.1	PROTECTOR
D901	MTZJ-9.1	PROTECTOR
D902	MTZJ-9.1	PROTECTOR
D903	MTZJ-9.1	PROTECTOR
D904	MTZJ-9.1	PROTECTOR
D905	MTZJ-9.1	PROTECTOR
D906	MTZJ-9.1	PROTECTOR
D907	MTZJ-9.1	PROTECTOR
D908	MTZJ-9.1	PROTECTOR
D909	MTZJ-9.1	PROTECTOR
D910	MTZJ-9.1	PROTECTOR
D911	MTZJ-9.1	PROTECTOR
D913	MTZJ-9.1	PROTECTOR
D914	MTZJ-9.1	PROTECTOR
D915	MTZJ-9.1	PROTECTOR
D916	MTZJ-9.1	PROTECTOR
D917	MTZJ-9.1	PROTECTOR
D919	MTZJ-9.1	PROTECTOR
D920	MTZJ-9.1	PROTECTOR
D921	MTZJ-9.1	PROTECTOR
D922	MTZJ-9.1	PROTECTOR
D923	MTZJ-9.1	PROTECTOR
D924	MTZJ-9.1	PROTECTOR
D925	MTZJ-9.1	PROTECTOR
D926	MTZJ-9.1	PROTECTOR
D927	MTZJ-9.1	PROTECTOR
D928	MTZJ-9.1	PROTECTOR
D930	MTZJ-9.1	PROTECTOR
D931	MTZJ-9.1	PROTECTOR
D932	MTZJ-9.1	PROTECTOR
D1301	DAN202K	PROTECTOR

9V
FR R IN
GND
FR L IN
GND
FR V IN
GND
FR C IN
GND
FR Y IN

TO H1 BOARD  
CN1008

CN1208
TOP
WHT-L
:S-MICRO

TO H1 BOARD  
CN1008



TO A BOARD CN0109

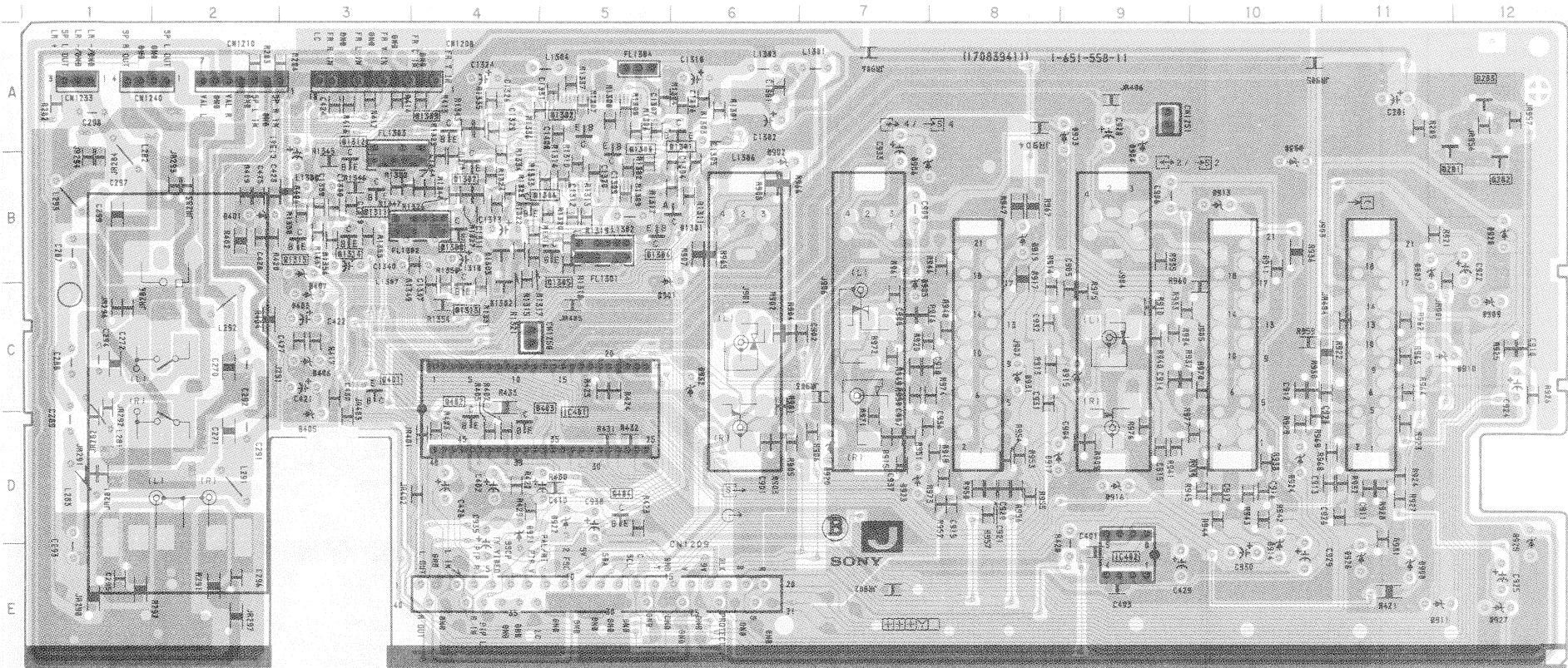




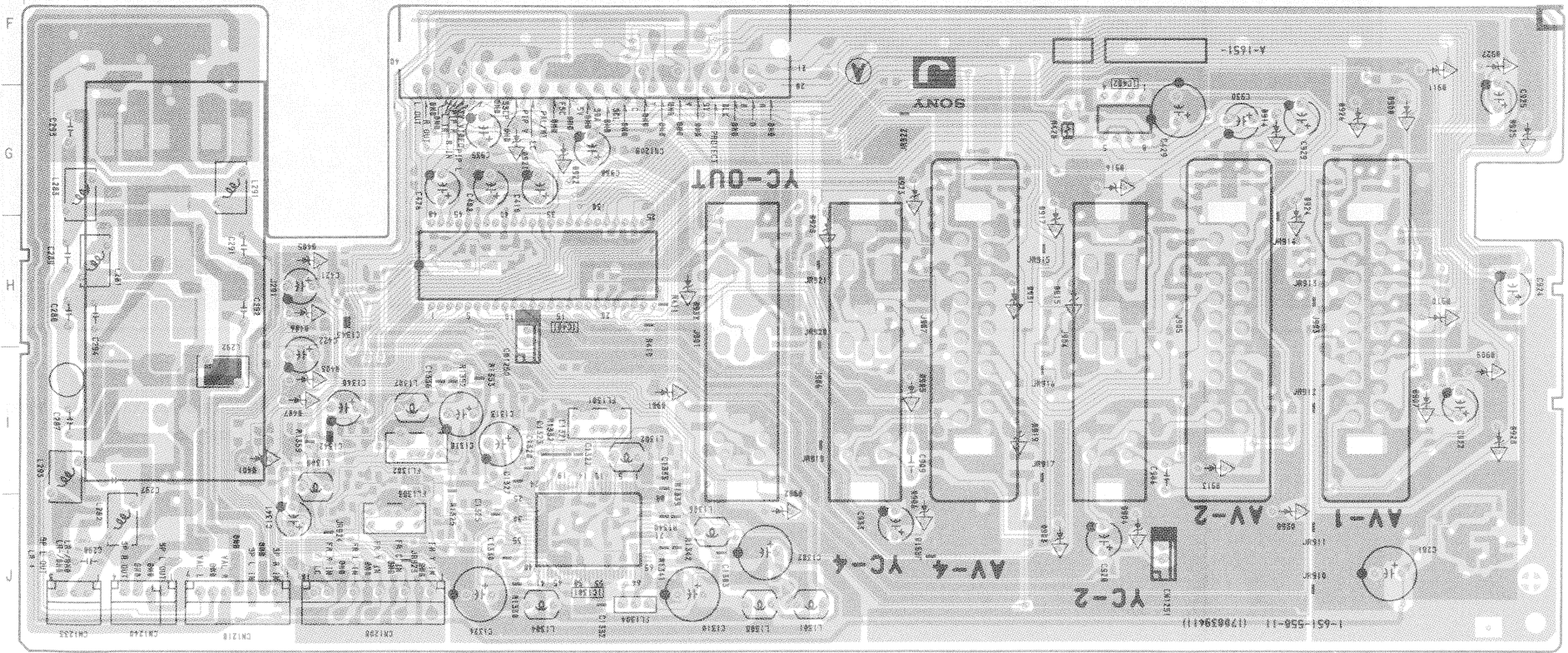
J

AUDIO/VIDEO SWITCH,  
DIGITAL COMB, BUFFER

— J Board — <Conductor Side>



— J Board — <Component Side>



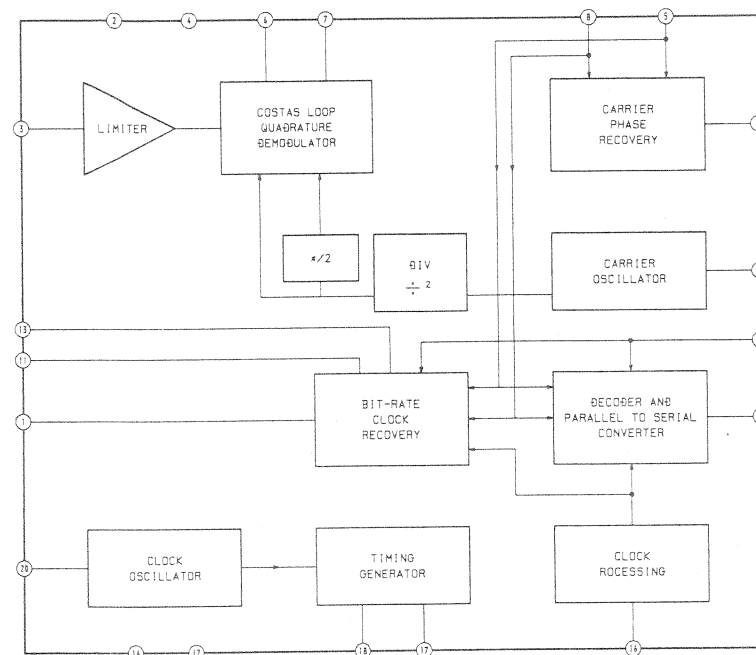
— J Board —

IC		
IC401	D-5	D407
IC402	E-9	D901
IC1301	J-5	D902
TRANSISTOR		
Q401	C-3	D903
Q402	D-3	D904
Q403	D-4	D905
Q404	D-5	D906
Q1301	A-6	D907
Q1302	A-5	D908
Q1303	A-5	D909
Q1304	B-5	D910
Q1305	B-5	D911
Q1306	B-4	D913
Q1307	B-4	D914
Q1308	B-4	D915
Q1309	A-4	D916
Q1311	B-3	D917
Q1312	B-3	D919
Q1313	C-4	D920
Q1314	B-3	D921
Q1315	B-3	D922
DIODE		
D401	B-2	D923
D403	C-3	D924
D405	D-3	D925
D406	C-3	D926
		D927
		D928
		D930
		D931
		D932
		D1301
		B-3
		C-5
		C-6
		A-9
		A-9
		C-7
		C-7
		B-11
		E-11
		D-12
		D-11
		E-11
		B-10
		E-10
		C-9
		D-9
		D-8
		B-8
		D-7
		D-4
		D-5
		D-7
		D-10
		E-12
		E-11
		E-12
		B-12
		B-10
		D-8
		D-6
		B-6

: Pattern from the side which enables seeing.

: Pattern of the rear side.

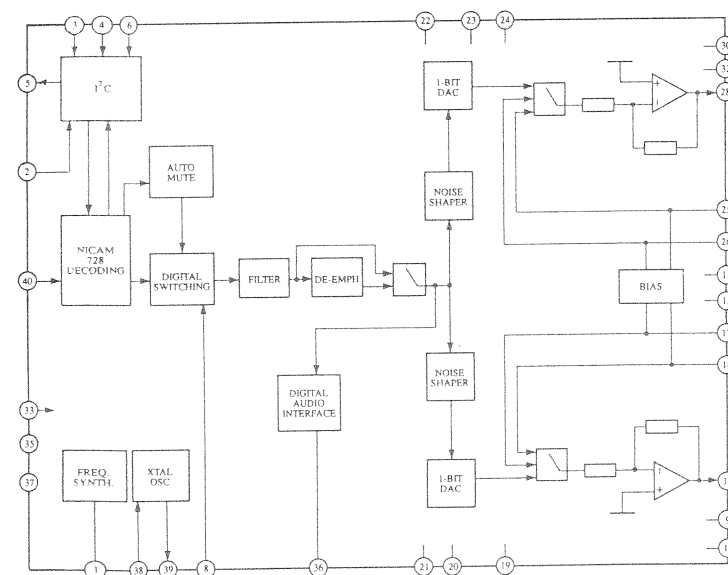
A2 BOARD IC1101 TDA8732



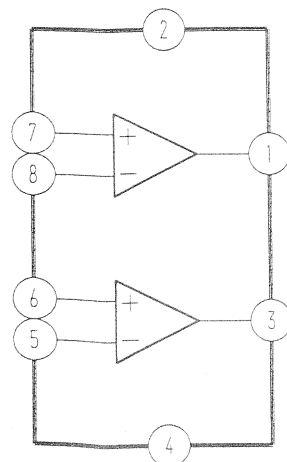
— A2 Board —

IC	Q1105	C-3
IC1101	Q1106	C-4
IC1102	Q1107	C-1
IC1201	Q1108	C-2
IC1202	Q1201	B-5
IC1203	Q1202	B-5
IC1204	Q1251	B-3
IC1251	Q1252	B-3
IC2201		
IC2202		
TRANSISTOR	DIODE	
Q1101	D1101	B-2
Q1102	D1102	B-3
Q1103	D1103	D-1
Q1104	D2201	C-6

A2 BOARD IC1102 SAA7282-ZP

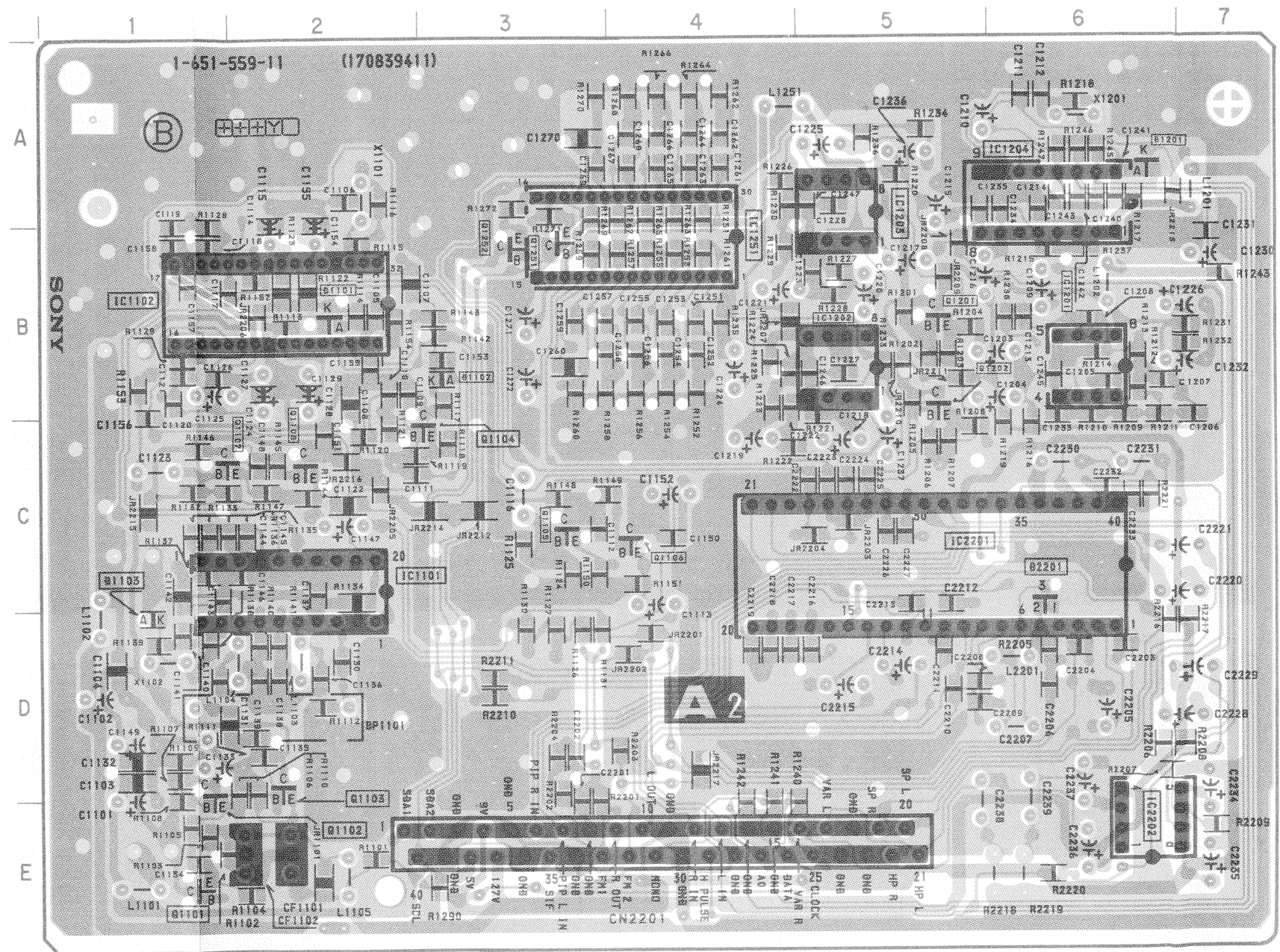


A2 BOARD IC2202 TDA2822M



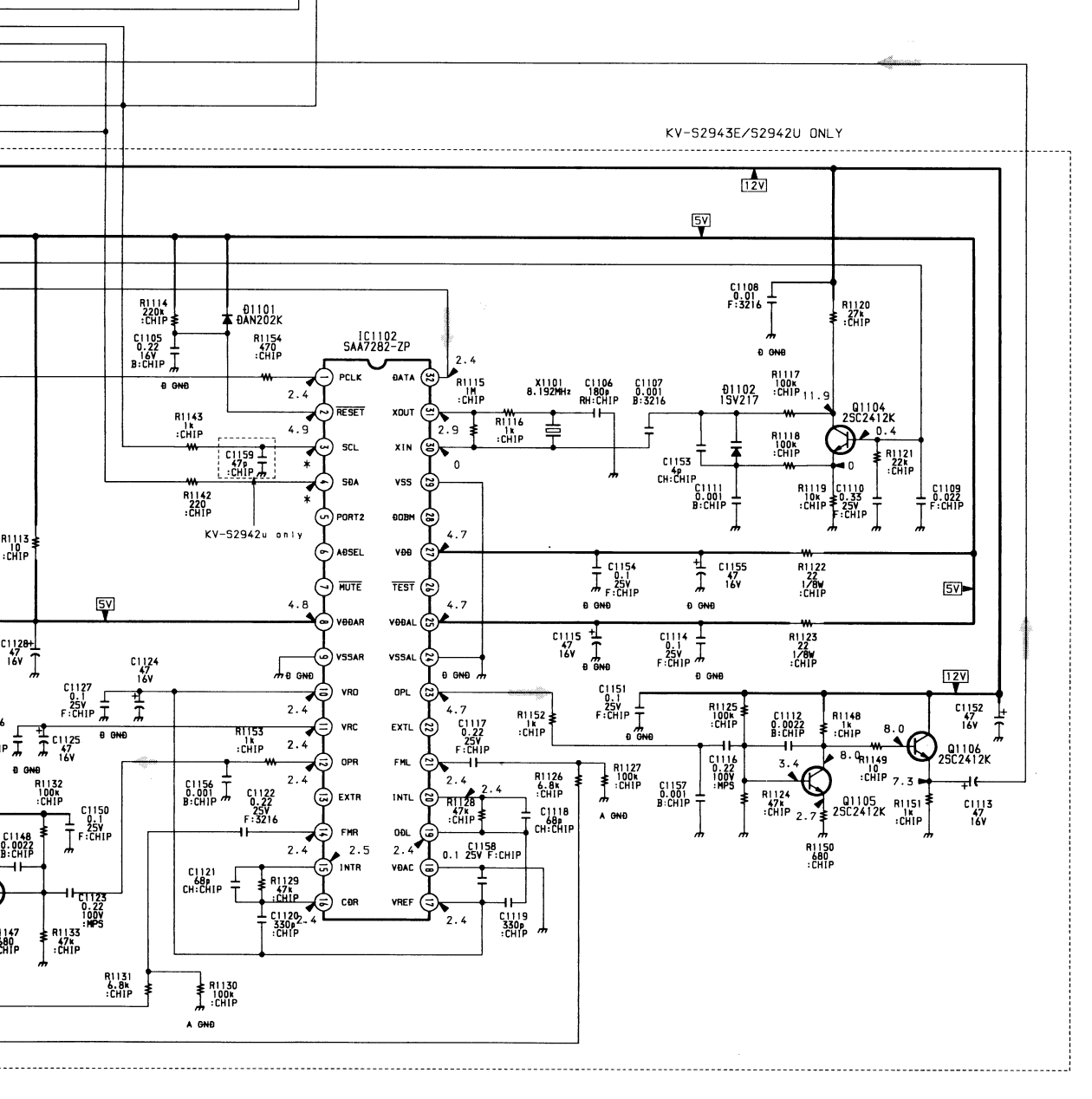
**A2** [ DEMODULATOR, MICAM-DECODER, SOUND-CONTROLLER, HEADPHONE AMP ]

— A2 Board —



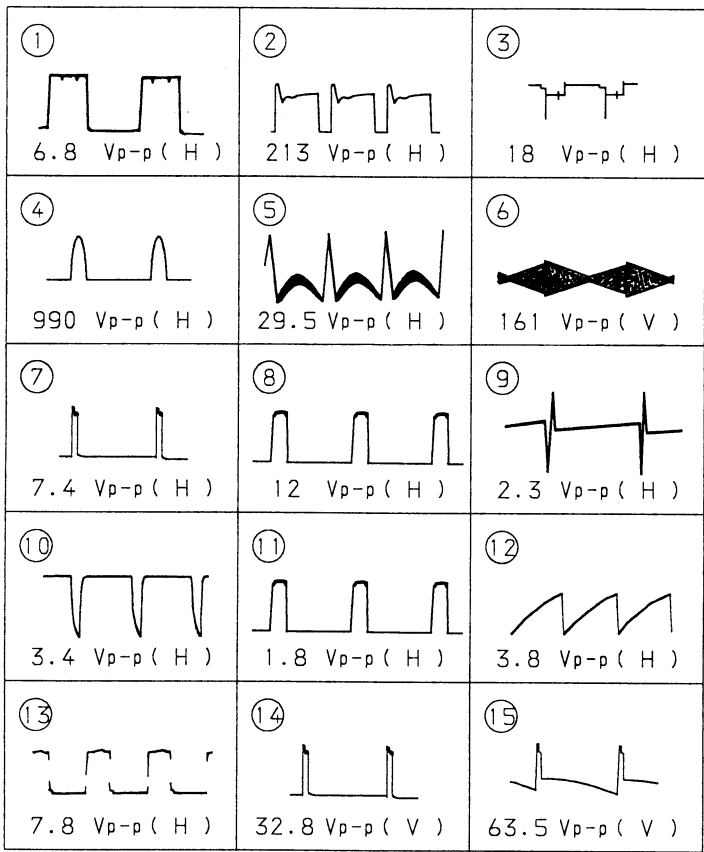
- Pattern from the side which enables seeing.
- Pattern of the rear side.



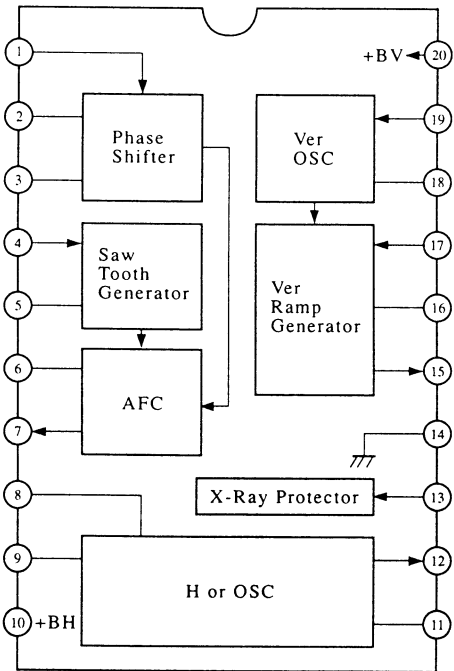


### Schematic diagram

— D Board —

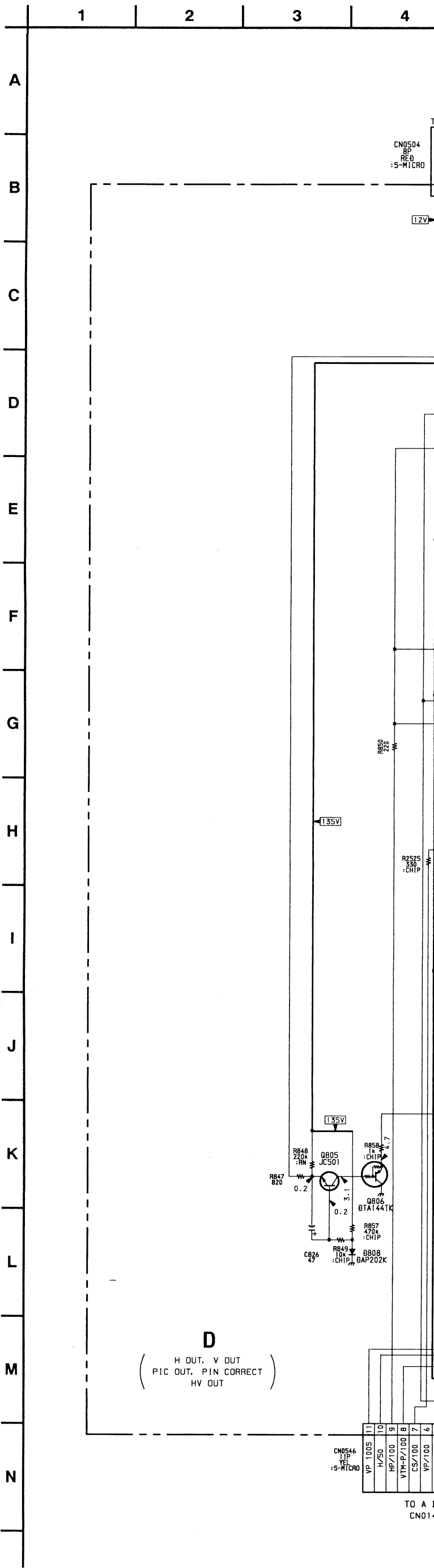


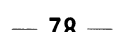
D BOARD IC2501 LA7856



— D Board —

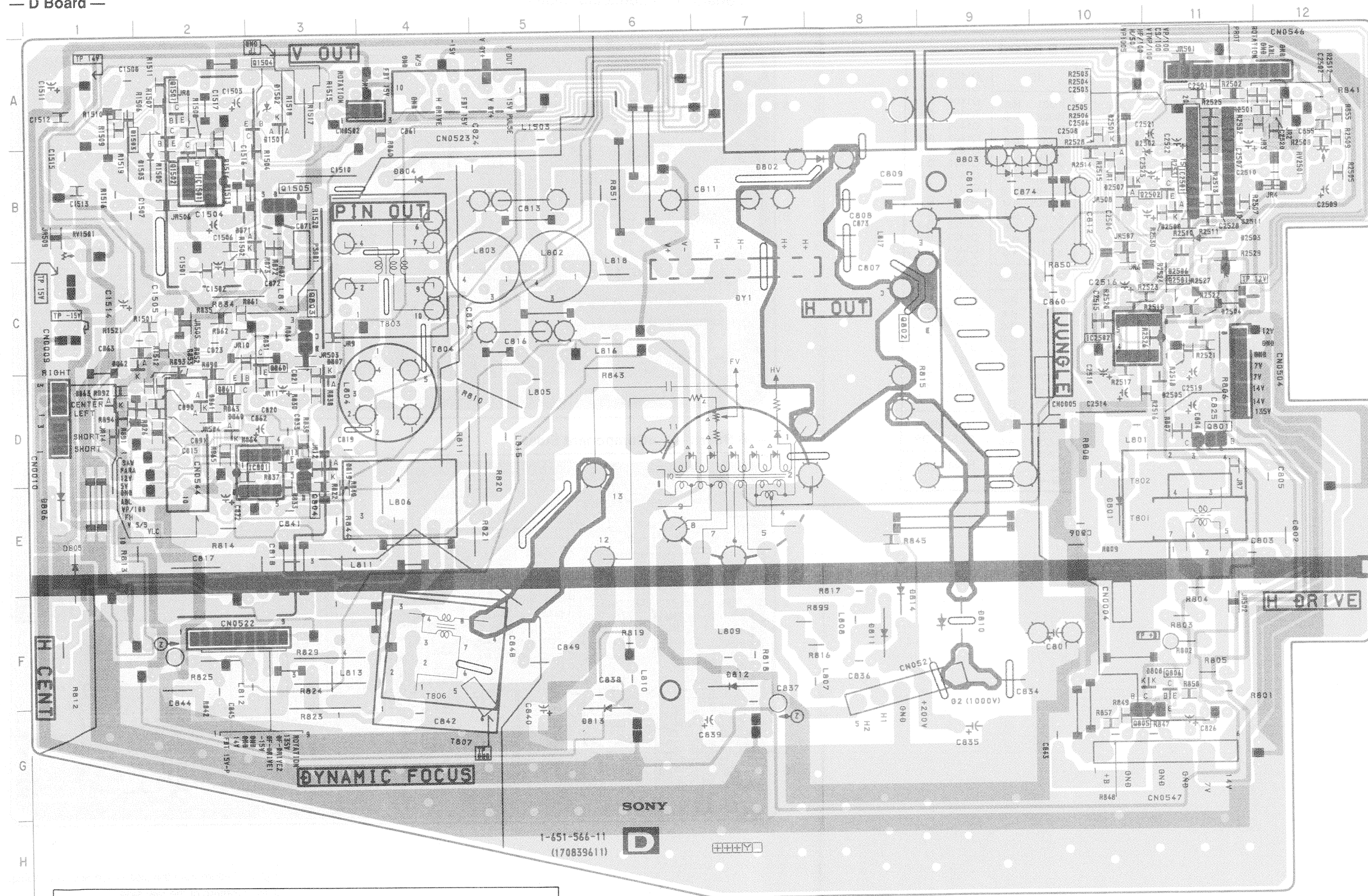
Ref. No.	Name	Function
IC801	LM393D	DI • MOD
IC1501	STV9379S	V OUT
IC2501	LA7856	JUNGLE
Q801	2SC2688-LK	H DRIVE
Q802	2SC3997-CA	H OUT
Q803	2SC4793	PIN OUT
Q804	2SD788-5	PIN DRIVE
Q805	JC501	SWITCH DRIVE
Q806	DTA144TK	V PROTECT SWITCH
Q860	2SC2412K	PIN AMP
Q861	2SA1037K	PIN AMP
Q1501	2SC2412K	V PROTECT
Q1502	DTC144EK	V PROTECT
Q1503	2SA1037K	V PROTECT
Q1504	DTC144EK	V PROTECT
Q1515	IRF1BC40	V R.P
Q2502	DTA114TK	SWITCH
D802	ERD08M-15	H DAMPER 1
D803	ESAD39M-06C	H DAMPER 2
D804	ERC38-06	PIN PROTECT
D805	GP08D	H CENT 1
D806	GP08D	H CENT 2
D807	DAN202K	PROTECT
D808	DAP202K	PROTECT
D810	RGP02-20EL-6394	G2 RECT
D811	RGP10G	200V RECT
D812	RGP10G	-15V RECT
D813	RGP10G	+15V RECT
D814	RGP15G	200V RECT
D819	DAN202K	SWITCH
D860	DAP202K	PROTECT
D861	DA204K	LEVEL SHIFT
D862	DAN202K	LEVEL SHIFT
D863	DAN202K	LEVEL SHIFT
D871	DAP202K	SWITCH
D1501	DAN202K	V PROTECT
D1502	MTZJ3.6A	V PROTECT
D1503	GP08D	V POMP-UP
D2501	DAP202K	HP RECT
D2502	NTZJ5.1B	LEVEL SHIFT
D2503	GP-08D	VCO SUPPLY
D2507	DAP202K	PROTECT
D2508	DAN202K	SWITCH





D [V-OUT, H-OUT, JUNGLE, DI MOD]

— D Board —



— D Board —

IC		D806	E-1
IC801	D-3	D807	D-3
IC1501	B-2	D808	F-10
IC2501	B-11	D810	F-9
TRANSISTOR		D811	F-8
		D812	F-7
		D813	G-6
		D814	F-8
		D819	D-3
Q801	D-11	D860	D-2
Q802	C-8	D861	D-2
Q803	C-3	D862	C-1
Q804	E-3	D863	D-1
Q805	G-10	D871	B-2
Q806	F-11	D1501	A-3
Q860	C-3	D1502	A-3
Q861	D-2	D1503	B-2
Q1501	A-2	D2501	A-10
Q1502	B-2	D2502	B-11
Q1503	A-2	D2503	B-11
Q1504	A-3	D2507	B-10
Q1505	B-3	D2508	B-11
Q2502	B-11	DIODE	
		VARIABLE RESISTOR	
D802	B-8		
D803	B-9		
D804	B-4		
D805	E-1		
		RV2501	B-12
		RV1501	B-2

**NOTE:**  
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

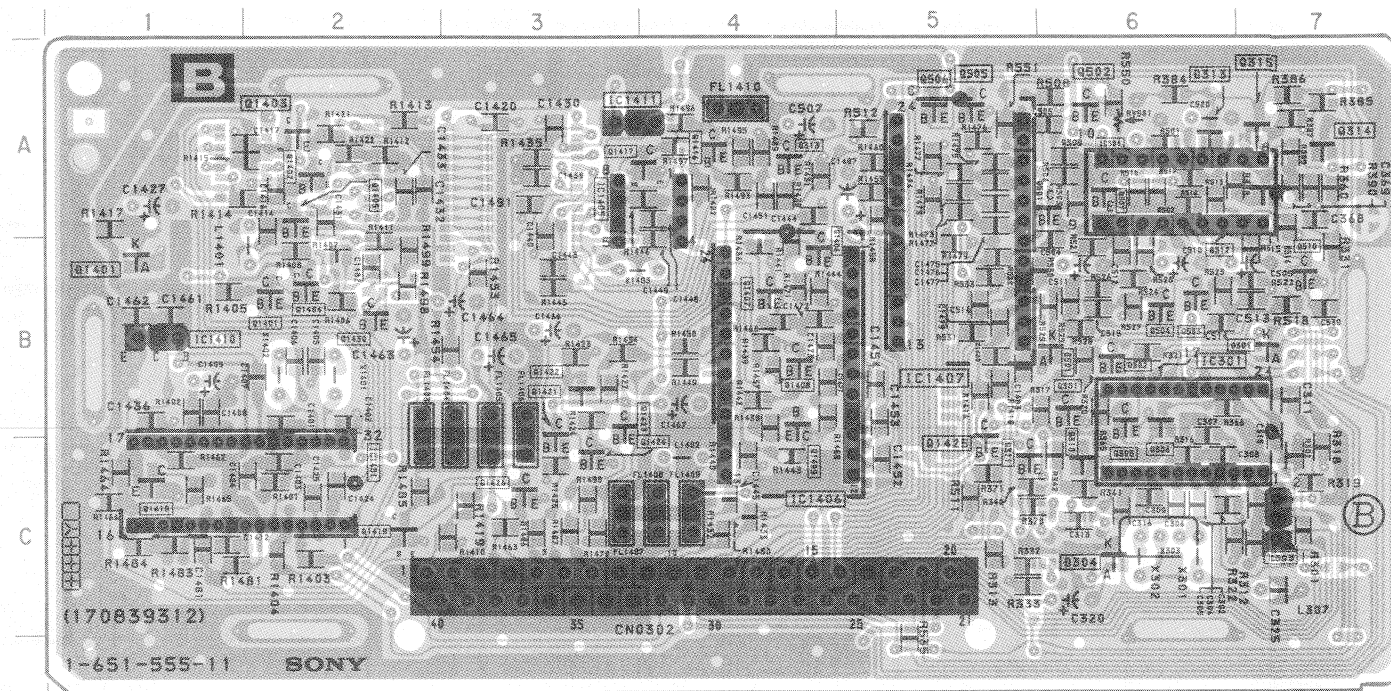
- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

**B** [CHROMA DECODER, RGB SW,  
H.V SYNC SEP

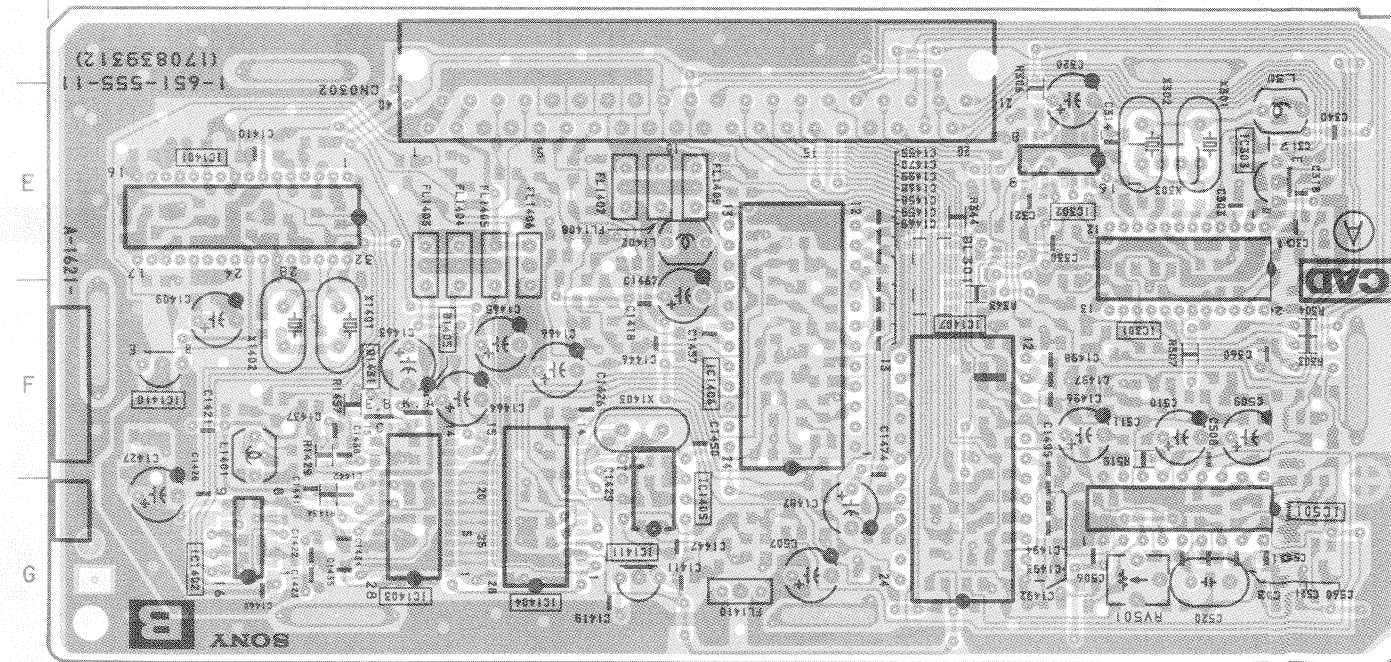
— B Board — <Conductor Side>

— B Board —

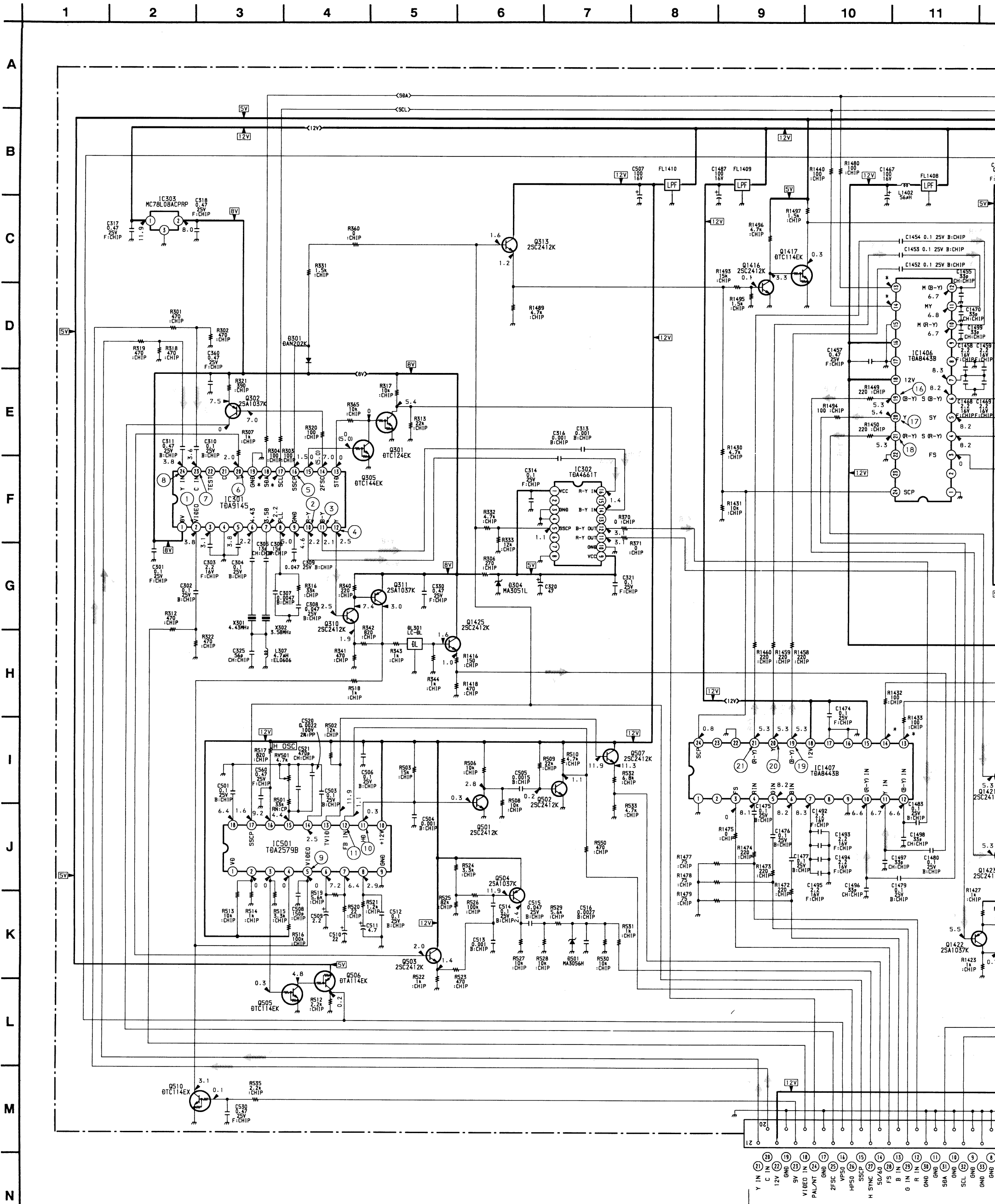
IC		Q1402	A-1
		Q1403	A-1
IC301	B-6	Q1404	B-2
IC302	E-6	Q1405	A-1
IC303	C-7	Q1406	B-4
IC501	A-6	Q1407	B-4
IC1401	C-2	Q1408	B-4
IC1402	G-2	Q1409	C-4
IC1403	G-2	Q1416	A-4
IC1404	G-3	Q1417	A-4
IC1405	A-3	Q1419	C-2
IC1406	B-4	Q1421	B-3
IC1407	B-5	Q1422	B-3
IC1410	B-1	Q1423	B-3
IC1411	A-3	Q1424	C-3
TRANSISTOR		Q1425	C-3
Q301	B-6	Q1426	C-3
Q302	B-6	Q1430	B-2
Q305	B-6	Q1431	F-2
Q310	C-6	DIODE	
Q311	C-5	D301	B-7
Q313	A-4	D304	C-6
Q501	A-6	D501	B-6
Q502	A-6	D1401	B-1
Q503	B-6	D1405	F-2
Q504	B-6	VARIABLE RESISTOR	
Q505	A-5	RV501	A-6
Q506	A-5		
Q507	A-6		
Q510	A-7		
Q1401	B-2		

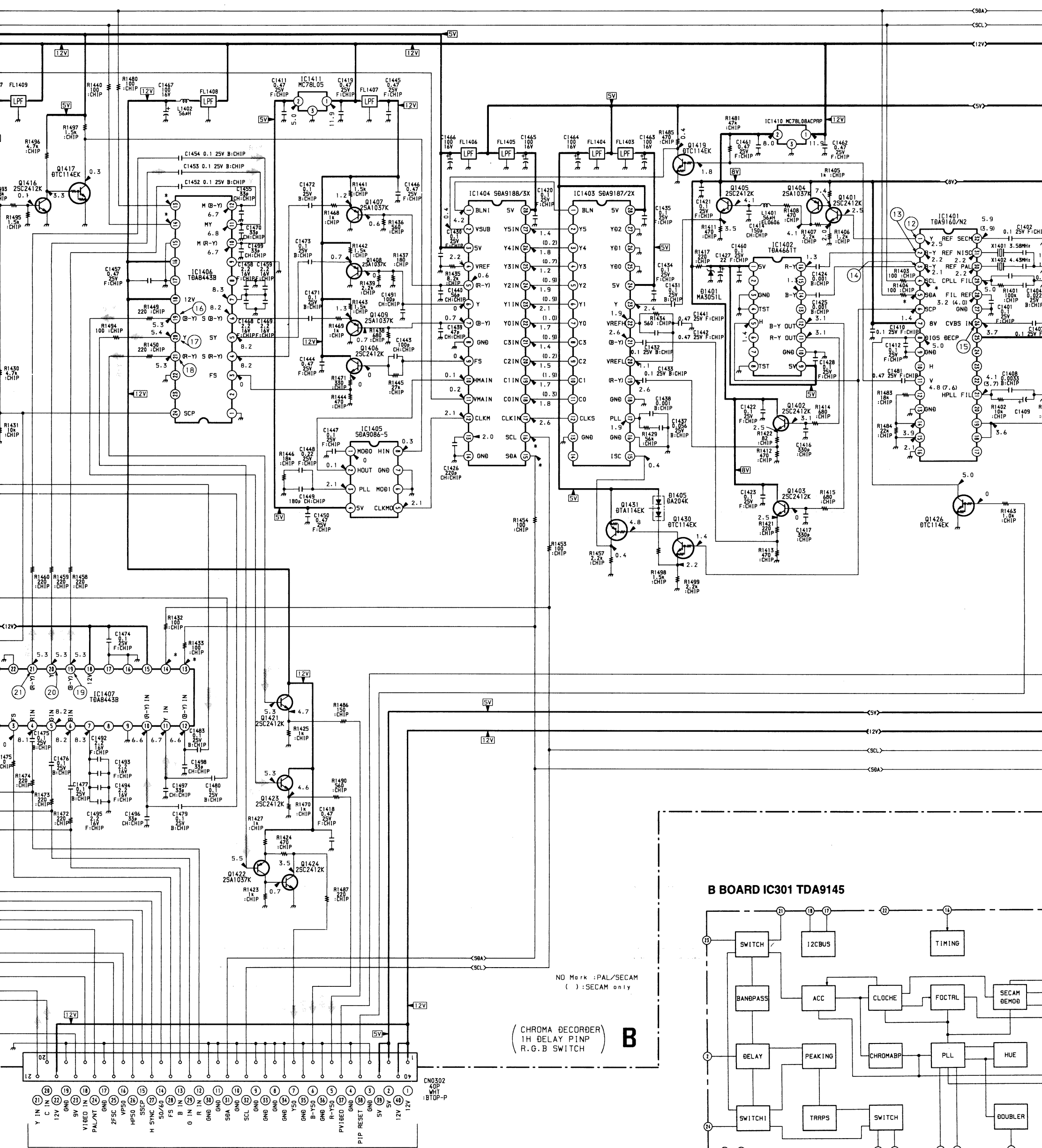


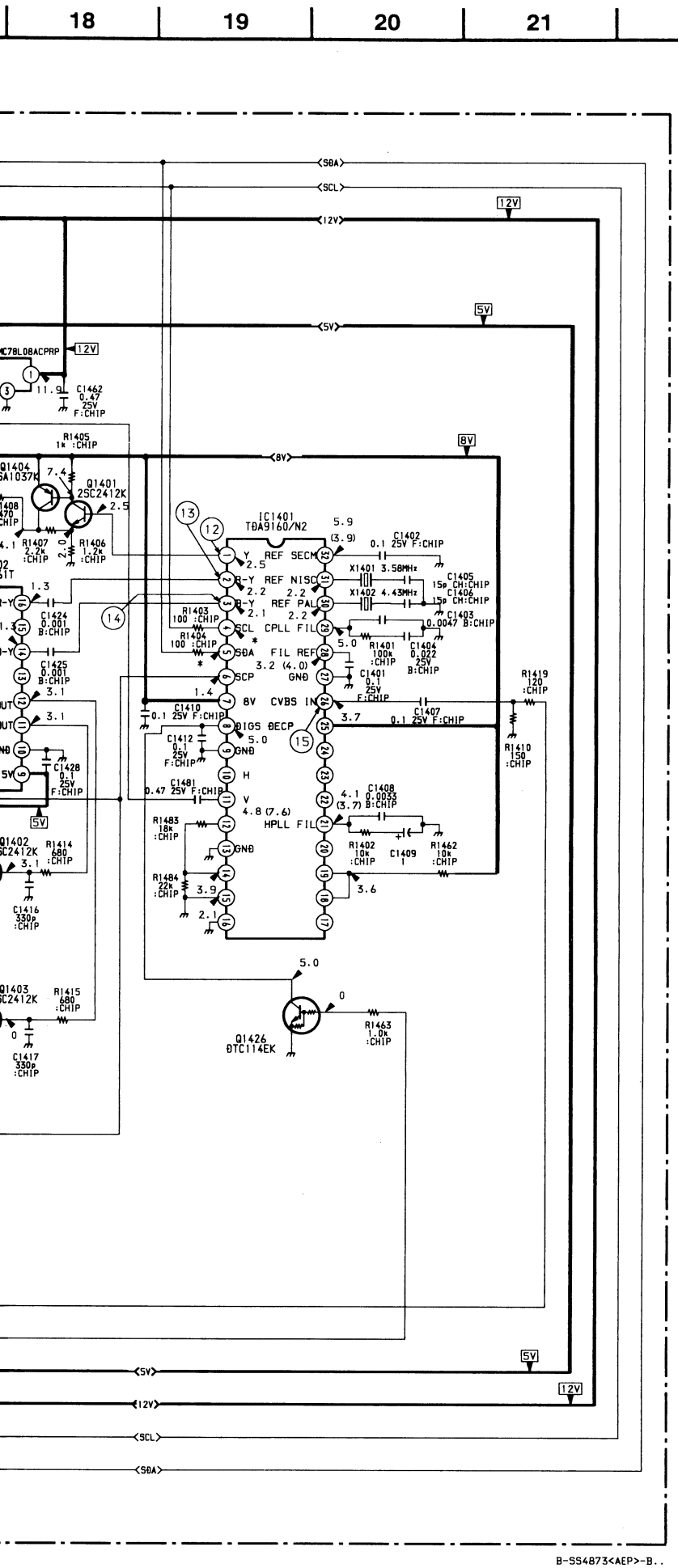
— B Board — <Component Side>



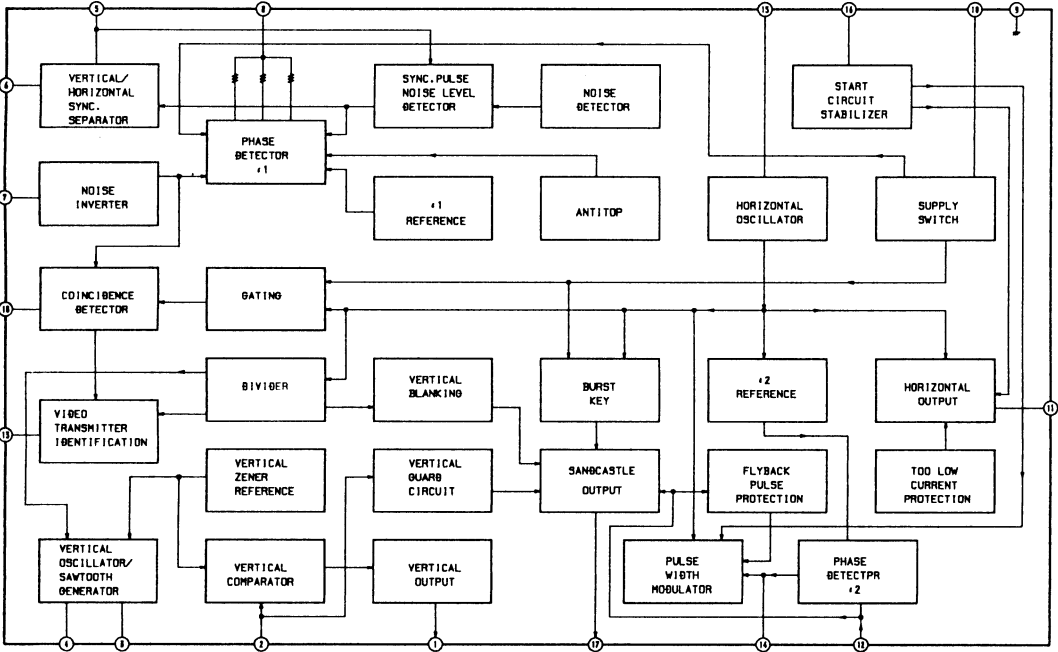
- : Pattern from the side which enables seeing.
- : Pattern of the rear side.



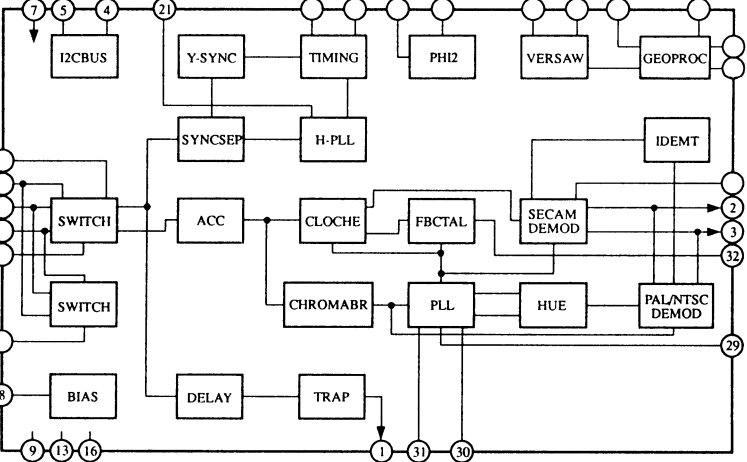




# B BOARD IC501 TDA2579B



# B BOARD IC1401 TDA9160/N2

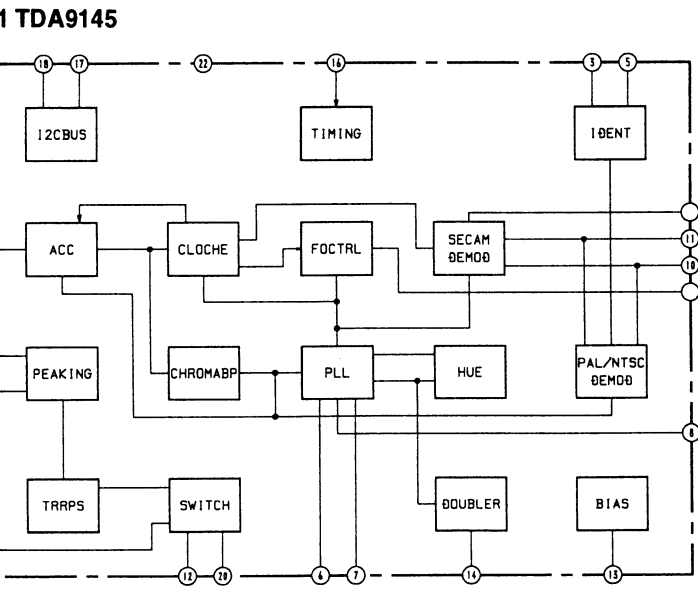


# B Board

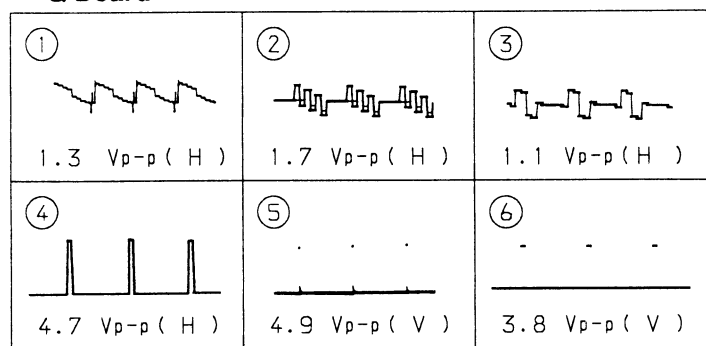
⑦ NTSC3.58	⑧ PAL	⑧ SECAM
0.75 Vp-p (H)	0.85 Vp-p (H)	0.83 Vp-p (H)
⑧ NTSC3.58	⑨	⑩
1.0 Vp-p (H)	0.9 Vp-p (H)	0.68 Vp-p (H)
⑪	⑫	⑬ PAL
5.8 Vp-p (H)	0.35 Vp-p (H)	0.55 Vp-p (H)
⑬ PAL	⑭ PAL	⑭ SECAM
1.2 Vp-p (H)	0.8 Vp-p (H)	1.5 Vp-p (H)
⑮ PAL	⑮ SECAM	⑯ PAL
0.95 Vp-p (H)	1.0 Vp-p (H)	3.1 Vp-p (H)
⑮ SECAM	⑮ NTSC3.58	⑰ PAL
3.0 Vp-p (H)	2.8 Vp-p (H)	0.7 Vp-p (H)
⑦ NTSC3.58	⑧ PAL	⑧ SECAM
0.75 Vp-p (H)	0.85 Vp-p (H)	0.83 Vp-p (H)
⑧ NTSC3.58	⑨	⑩
1.0 Vp-p (H)	0.9 Vp-p (H)	0.68 Vp-p (H)
⑪	⑫	⑬ PAL
5.8 Vp-p (H)	0.35 Vp-p (H)	0.55 Vp-p (H)
⑬ PAL	⑭ PAL	⑭ SECAM
1.2 Vp-p (H)	0.8 Vp-p (H)	1.5 Vp-p (H)
⑮ PAL	⑮ SECAM	⑯ PAL
0.95 Vp-p (H)	1.0 Vp-p (H)	3.1 Vp-p (H)
⑮ SECAM	⑮ NTSC3.58	⑰ PAL
3.0 Vp-p (H)	2.8 Vp-p (H)	0.7 Vp-p (H)
⑰ SECAM	⑰ NTSC3.58	⑱ PAL
0.68 Vp-p (H)	0.9 Vp-p (H)	2.5 Vp-p (H)
⑱ SECAM	⑱ NTSC3.58	⑲ PAL
2.4 Vp-p (H)	2.2 Vp-p (H)	1.3 Vp-p (H)
⑲ SECAM	⑲ NTSC3.58	⑳ PAL
1.5 Vp-p (H)	1.4 Vp-p (H)	0.36 Vp-p (H)
⑳ SECAM	⑳ NTSC3.58	㉑ PAL
0.37 Vp-p (H)	0.45 Vp-p (H)	1.0 Vp-p (H)
㉑ SECAM	㉑ NTSC3.58	
1.2 Vp-p (H)	1.1 Vp-p (H)	

# B Board

Ref. No.	Name	Function
IC301	TDA9145	CHROMA DECODER
IC302	TDA4661T	1H-DELAY
IC303	MC78L08ACPRP	8V REG
IC501	TDA2579B	H-V SYNC SEP
IC1401	TDA9160/N2	CHROMA DECODER
IC1402	TDA4661T	1H-DELAY
IC1403	SDA9187/2X	PIP
IC1404	SDA9188/3X	PIP
IC1405	SDA9086-5	PIP-PLL
IC1406	TDA844	RGB-SW
IC1407	TDA8443B	RGB-SW
IC1410	MC78L08ACPRP	8V REG
IC1411	MC78L05	5V REG
Q301	DTC124EK	PAL/NT SWITCH
Q302	2SA1037K	2 Fsc AMP
Q305	DTC144EK	PAL/NT SWITCH
Q310	2SC2412K	Y AMP
Q311	2SA1037K	Y CLAMP
Q313	2SC2412K	SSCP BUFFER
Q501	2SC2412K	H PULSE DRIVE
Q502	2SC2412K	H PULSE DRIVE
Q503	2SC2412K	H SYNC SEP
Q504	2SA1037K	BUFFER
Q505	DTC114EK	V PULSE DRIVE
Q506	DTA114EK	V PULSE DRIVE
Q507	2SC2412K	ID BUFFER
Q510	DTC114EX	VIDEO MUTE
Q1401	2SC2412K	Y AMP
Q1402	2SC2412K	R-Y BUFFER
Q1403	2SC2412K	B-Y BUFFER
Q1404	2SA1037K	Y BUFFER
Q1405	2SC2412K	BUFFER
Q1406	2SC2412K	BUFFER
Q1407	2SA1037K	BUFFER
Q1408	2SA1037K	BUFFER
Q1409	2SA1037K	BUFFER
Q1416	2SC2412K	V PULSE SEP
Q1417	DTC114EK	V PULSE INVERTER
Q1419	DTC114EK	V PULSE AMP
Q1421	2SC2412K	R-Y BUFFER
Q1422	2SA1037K	Y AMP
Q1423	2SC2412K	B-Y BUFFER
Q1424	2SC2412K	Y BUFFER
Q1425	2SC2412K	Y BUFFER
Q1426	DTC114EK	RESET SWITCH
Q1430	DTC114EK	SSCP SLICE
Q1431	DTA114EK	INVERTER
D301	DAN202K	LIMITER
D304	MA3051L	PROTECT
D501	MA3056H	PROTECT
D1401	MA3051L	5V REG
D1405	DA204K	BIAS



— Q Board —

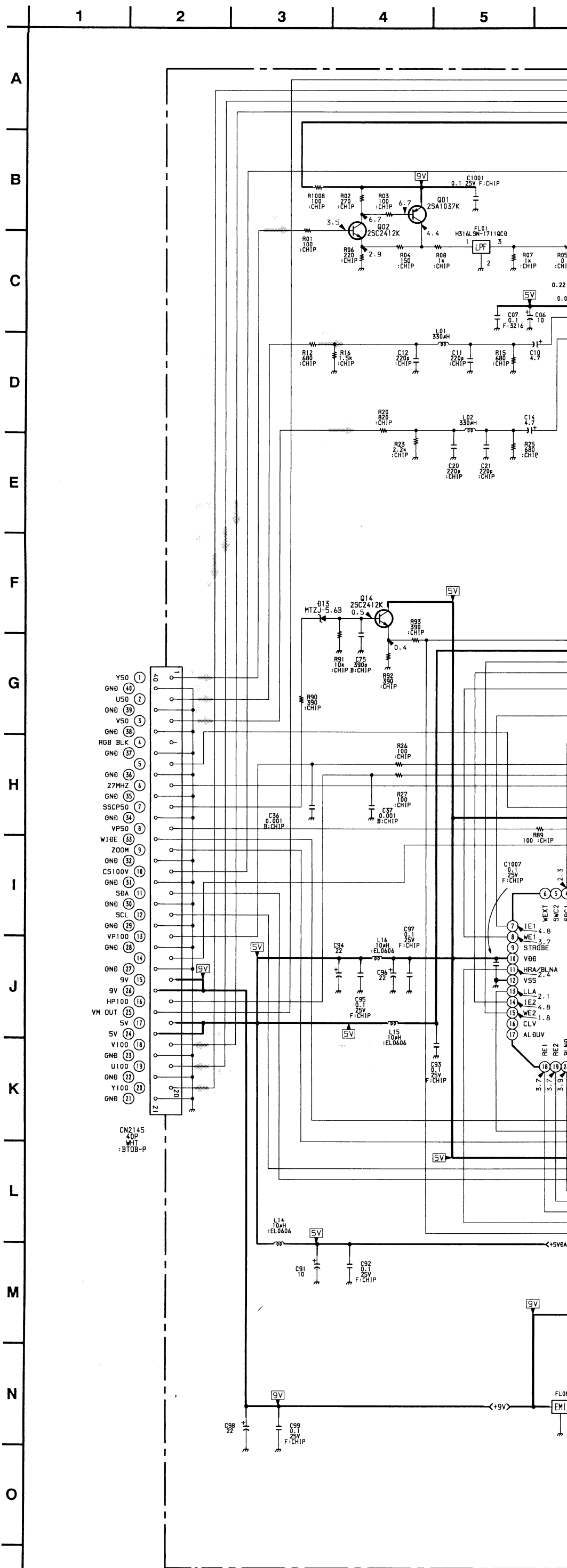


— Q Board —

Ref. No.	Name	Function
IC1	TDA8755	A/D CONVERTOR
IC2	TMS4C2970	D-RAM
IC3	TMS4C2970	D-RAM
IC4	SAA4940H	NOISE REDUCTION
IC6	SAA4951	ECO-2 CONTROL
IC7	83C652	MICRO-COMPUTER
IC8	78L05	5V REG
IC9	MC74F08D	BUFFER
IC10	MC74F08D	BUFFER
IC11	78L05	5V REG
IC12	HEF4046BT	PLL
IC13	TC4SS66F	SWITCH
IC14	78L05	5V REG
IC15	TC4S66F	SWITCH
IC16	MC74F08D	BUFFER
IC17	SAA7158	BACK END
IC18	78L05	5V REG
IC19	TC4S66F	SWITCH
IC20	TC4S66F	SWITCH
IC21	TC4S66F	SWITCH
IC22	TC4S66F	SWITCH
Q1	2SA1037K	Y AMP
Q2	2SC2412K	Y AMP
Q8	BF550	BUFFER
Q9	2SC2412K	BUFFER
Q10	BF550	BUFFER
Q11	BF550	
Q12	2SA1037K	B-Y BUFFER
Q13		B-Y BUFFER
Q14	2SC2412K	BUFFER
Q16		BUFFER
Q17	DTC144EK	SWITCH
Q18	DTC144EK	SWITCH
Q20	2SA1037K	Y BUFFER
Q21	2SA1037K	R-Y AMP
Q22	2SC2412K	R-Y AMP
Q24	DTC144EK	SWITCH
D3	BBY40	VARI-CAP
D4	BAS16	SWITCH
D5	BAS16	SWITCH
D6	BAS16	PROTECT
D8	BBY40	VARI-CAP
D9	BAS16	LIMITTER
D10	BBY40	VARI-CAP
D11	BAS16	SWITCH
D12	BAS16	LIMITTER
D13	MA3056M	LEVEL SHIFT
D15	DAN202K	SWITCH
D16	DAN202K	SWITCH

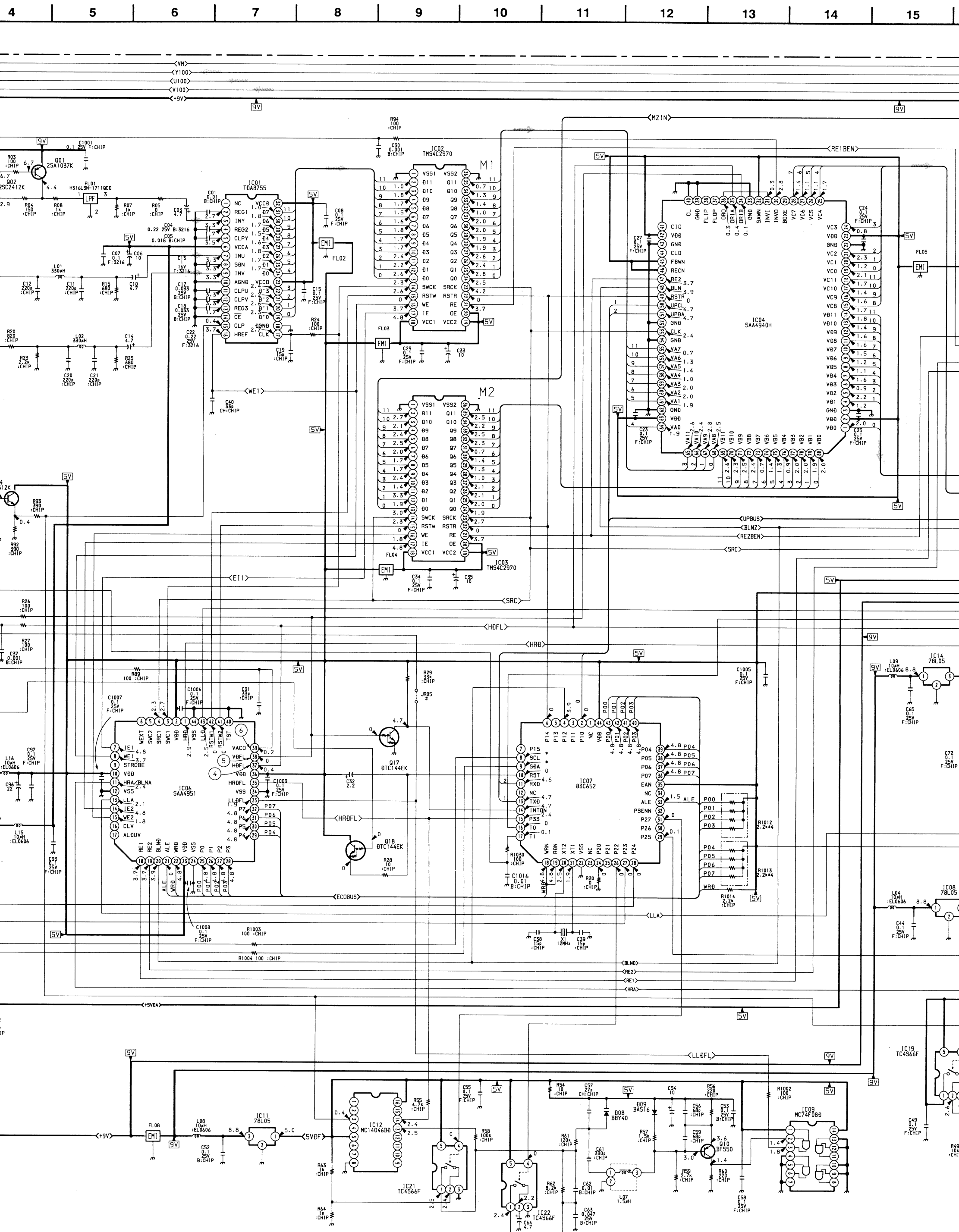
Schematic diagram

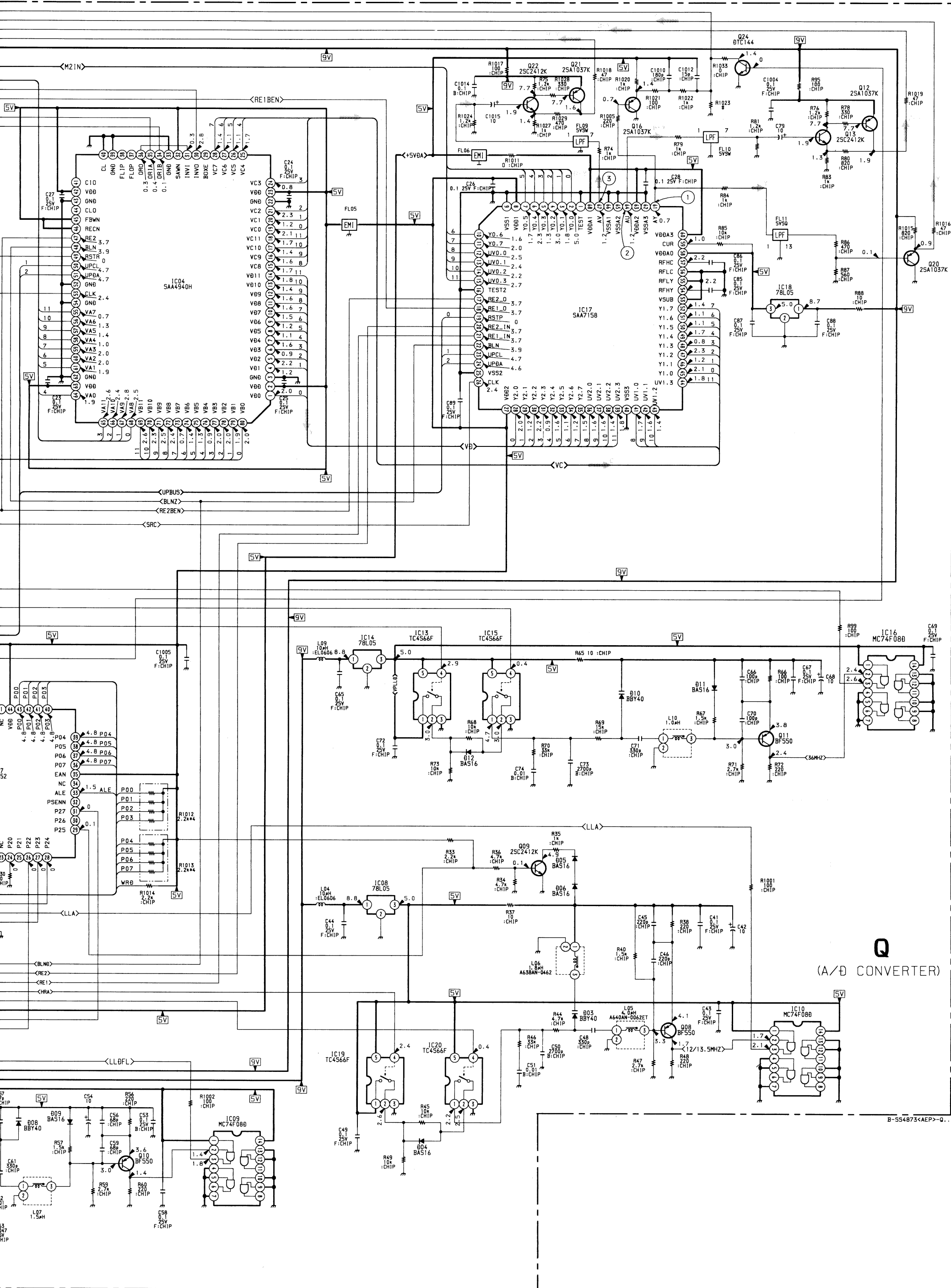
← B board



Schematic diagram

Q board →





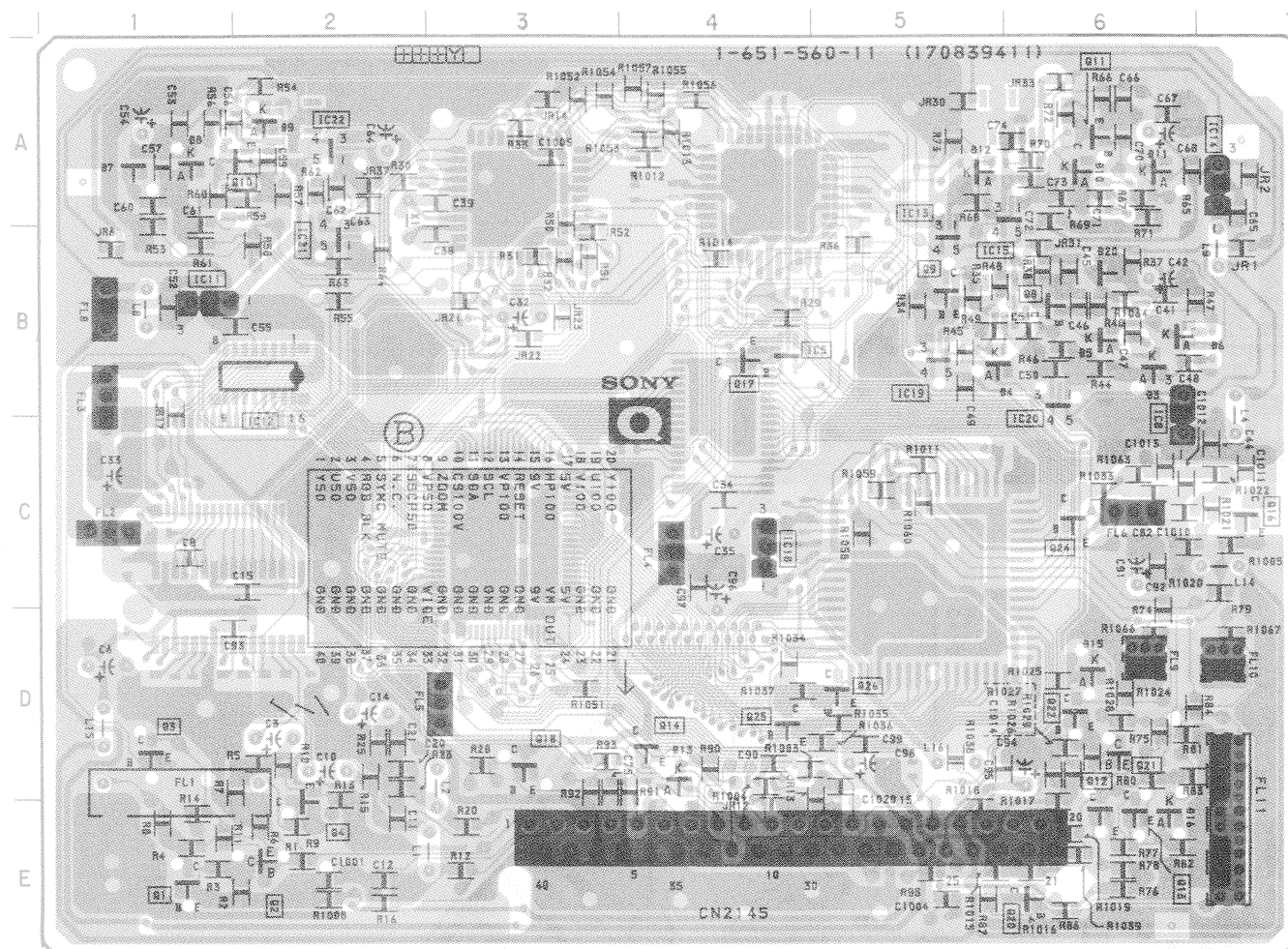
**Q**  
(A/D CONVERTER)

B-SS4873<AEP>-Q..

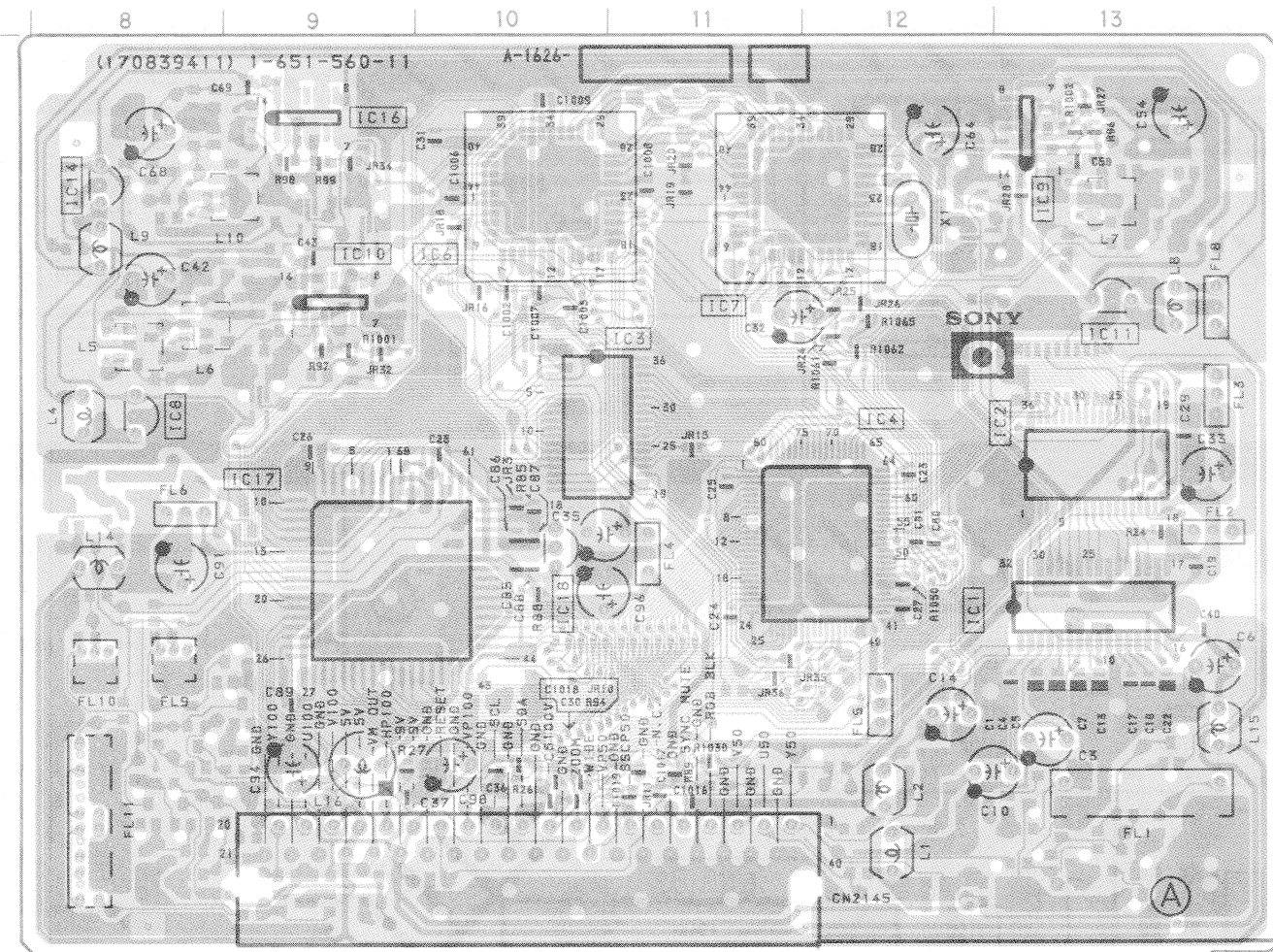


BACKEND/DCONVERTOR, NOISE REDUCTION,  
MICRO-COMPUTER, ECO-2 CONTROL

— Q Board — <Conductor Side>



— Q Board — <Component Side>



- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

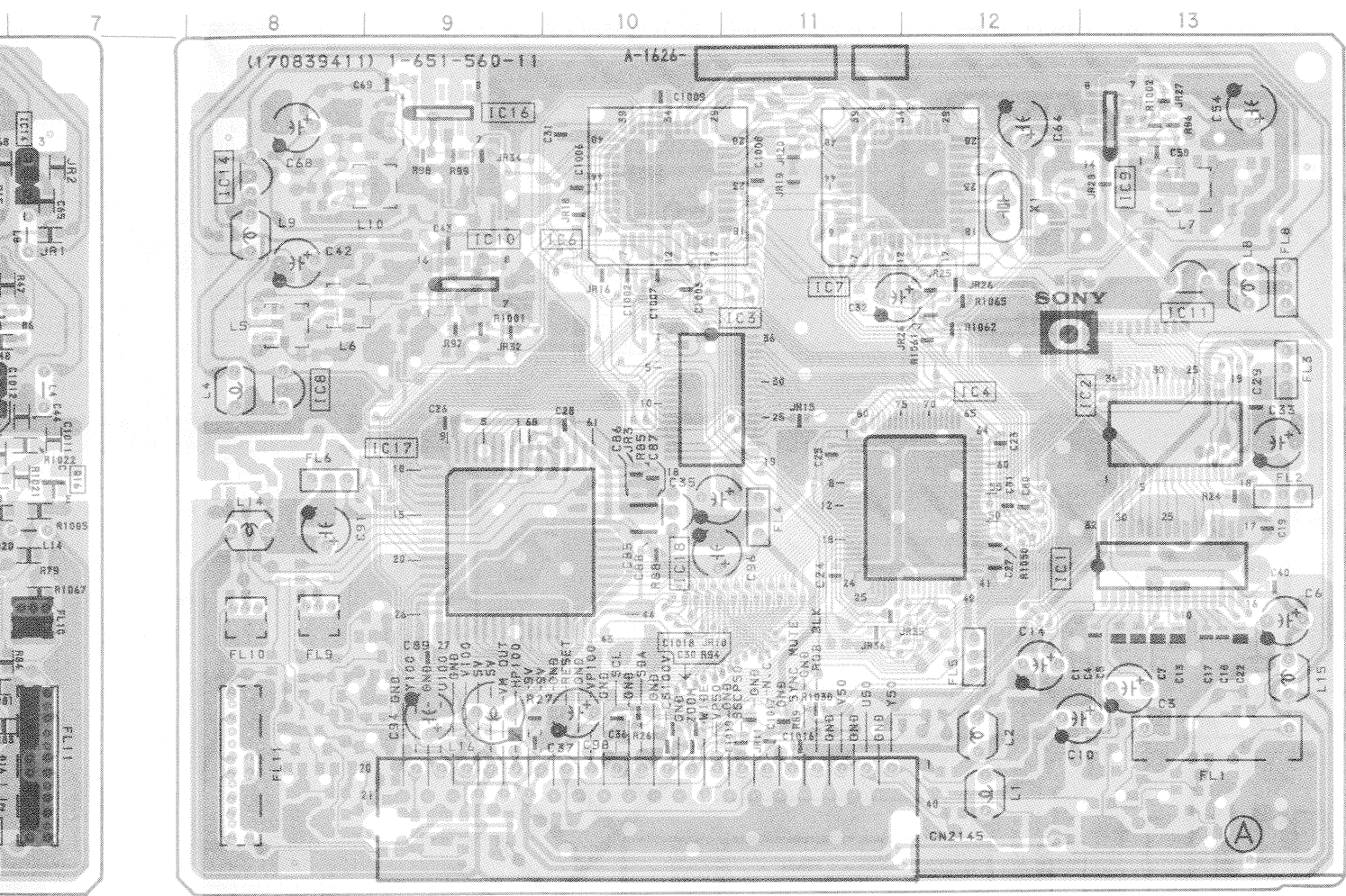
— Q Board —

IC	
IC1	C-10
IC2	C-10
IC3	B-10
IC4	C-12
IC6	A-10
IC7	A-12
IC8	B-6
IC9	A-13
IC10	B-9
IC11	B-1
IC12	B-2
IC13	B-5
IC14	A-7
IC15	B-6
IC16	A-9
IC17	C-9
IC18	C-4
IC19	B-5
IC20	B-6
IC21	B-2
IC22	A-2

TRANSISTOR	
Q1	E-1
Q2	E-2

— Q Board — <Component Side>



- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

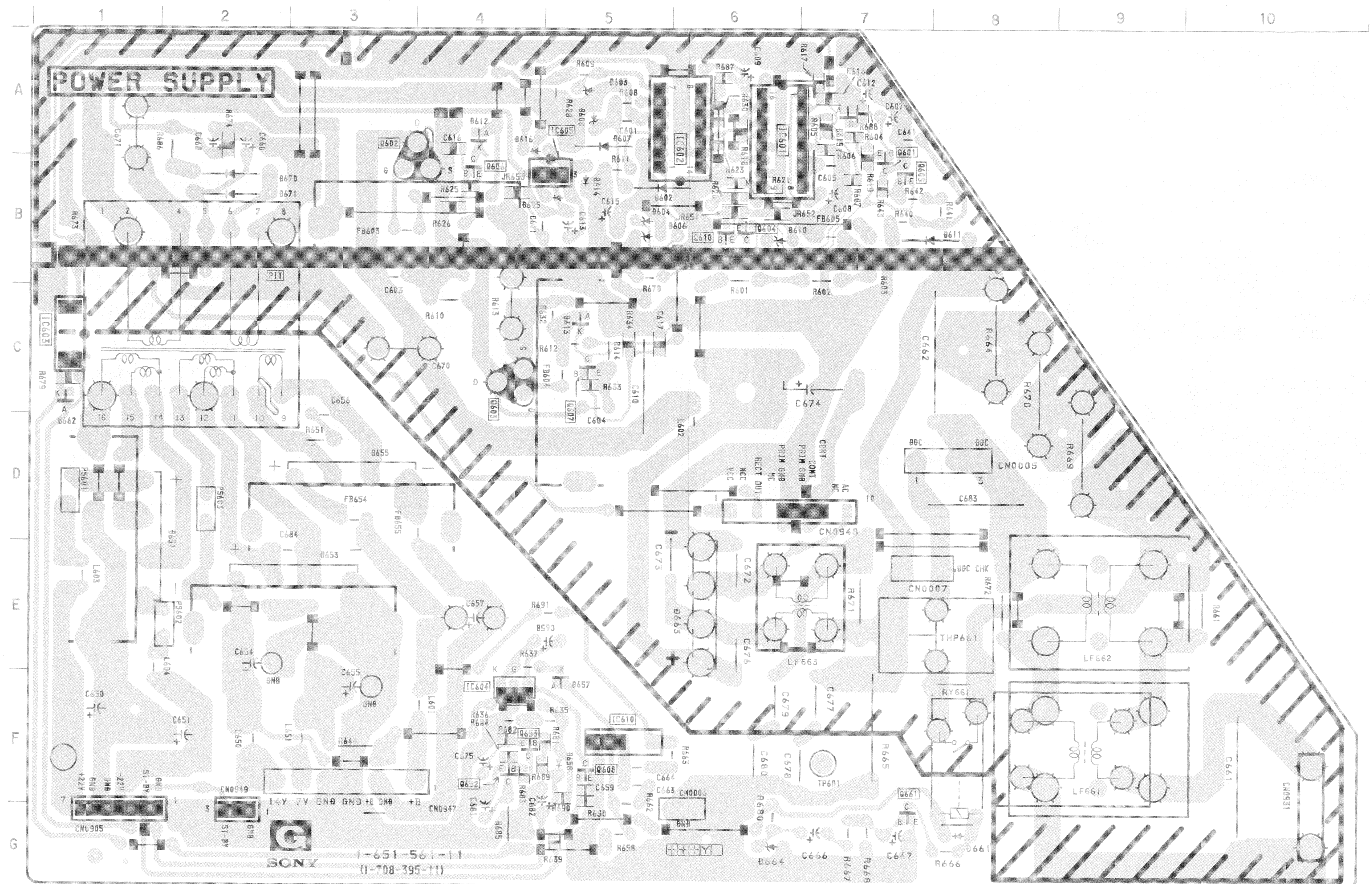
— Q Board —

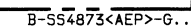
IC		Q8	B-6
IC1	C-13	Q9	B-5
IC2	C-13	Q10	A-2
IC3	B-10	A11	A-6
IC4	C-12	Q12	D-6
IC6	A-10	Q13	E-6
IC7	A-12	Q14	D-4
IC8	B-6	Q16	C-7
IC9	A-13	Q17	B-4
IC10	B-9	Q18	D-3
IC11	B-1	Q20	E-6
IC12	B-2	Q21	D-6
IC13	B-5	Q22	D-6
IC14	A-7	DIODE	
IC15	B-6	D3	B-6
IC16	A-9	D4	B-5
IC17	C-9	D5	B-6
IC18	C-4	D6	B-6
IC19	B-5	D8	A-1
IC20	B-6	D9	A-2
IC21	B-2	D10	A-6
IC22	A-2	D11	A-6
TRANSISTOR		D12	A-5
Q1	E-1	D13	D-4
Q2	E-2	D15	D-6
		D16	E-6

**G**

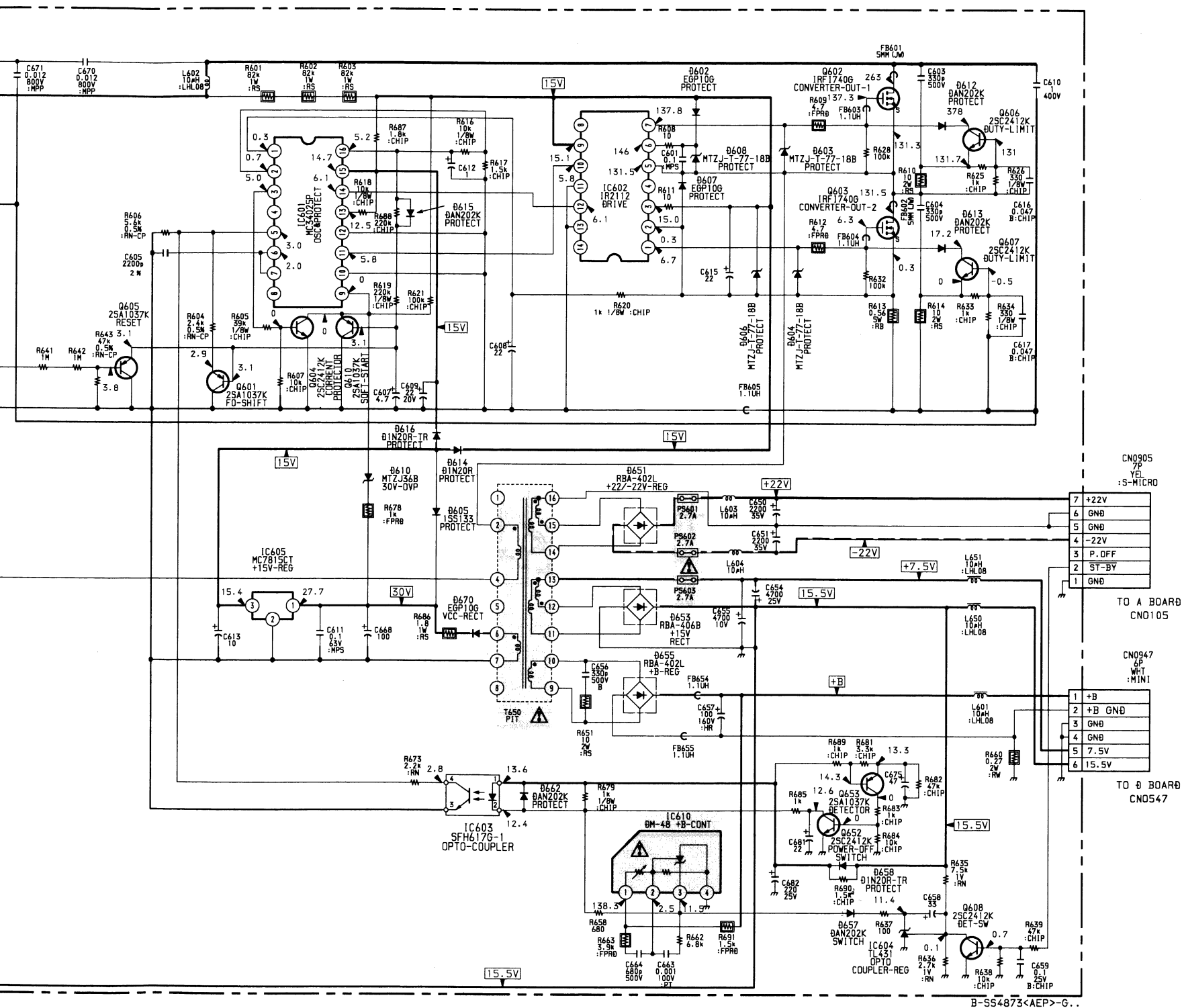
[POWER SUPPLY]

— G Board —





7 8 9 10 11 12 13 14 15 16



Schematic diagram

← G board

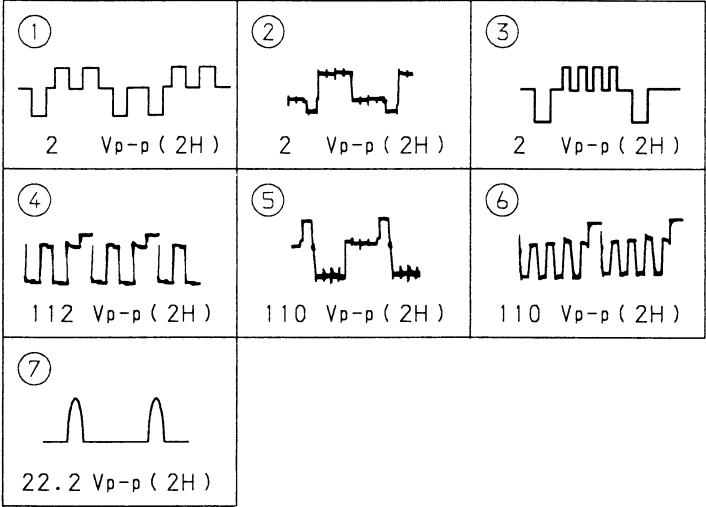
Schematic diagram

C board →

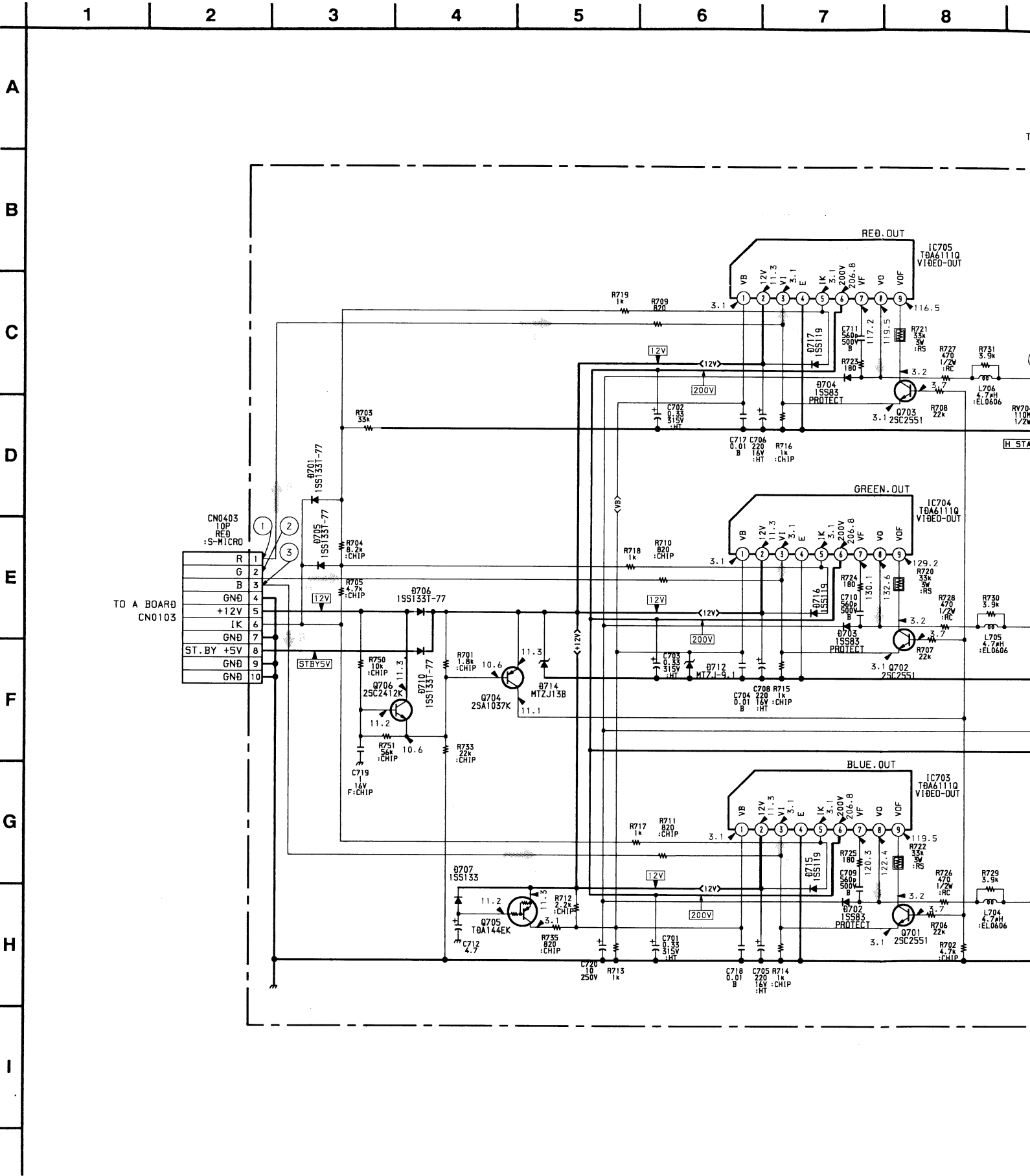
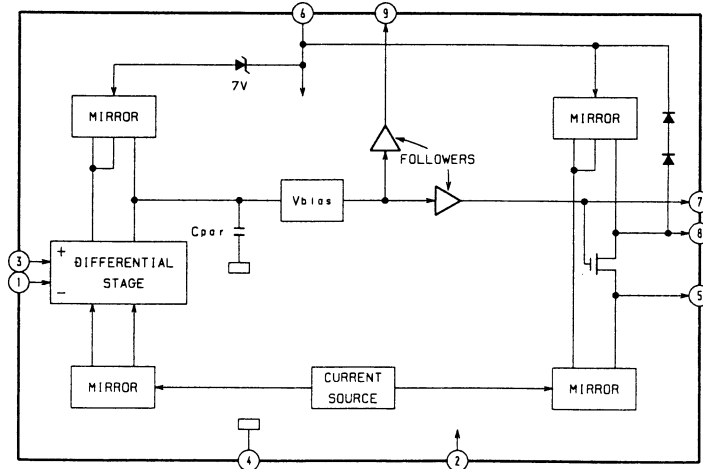
— C Board —

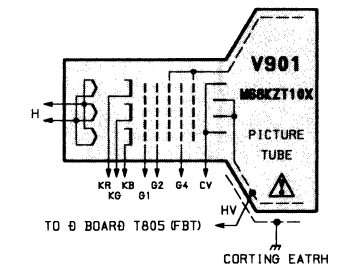
Ref. No.	Name	Function
IC703	TDA6111Q	VIDEO OUT (RED)
IC704	TDA6111Q	VIDEO OUT (GREEN)
IC705	TDA6111Q	VIDEO OUT (BLUE)
Q701	2SC2551	STANDBY SWITCH
Q702	2SC2551	STANDBY SWITCH
Q703	2SC2551	STANDBY SWITCH
Q704	2SA1037K	VOLTAGE MONITOR
Q705	TDA144EK	SWITCH ON MUTE
Q706	2SC2412K	SWITCH OFF DELAY
D701	1SS133T-77	IK (RED)
D702	1SS83	SWITCH
D703	1SS83	SWITCH
D704	1SS83	
D705	1SS133T-77	IK (GREEN)
D706	1SS133T-77	STANDBY SUPPLY
D707	1SS133T-77	SWITCH ON MUTE
D710	1SS133T-77	STANDBY SUPPLY
D712	MTZJ-9.1	PROTECT
D714	MTZJ13B	REF VOLTAGE
D715	1SS119	SWITCH
D716	1SS119	
D717	1SS119	

— C Board —



C BOARD IC703,704,705 TDA6111Q

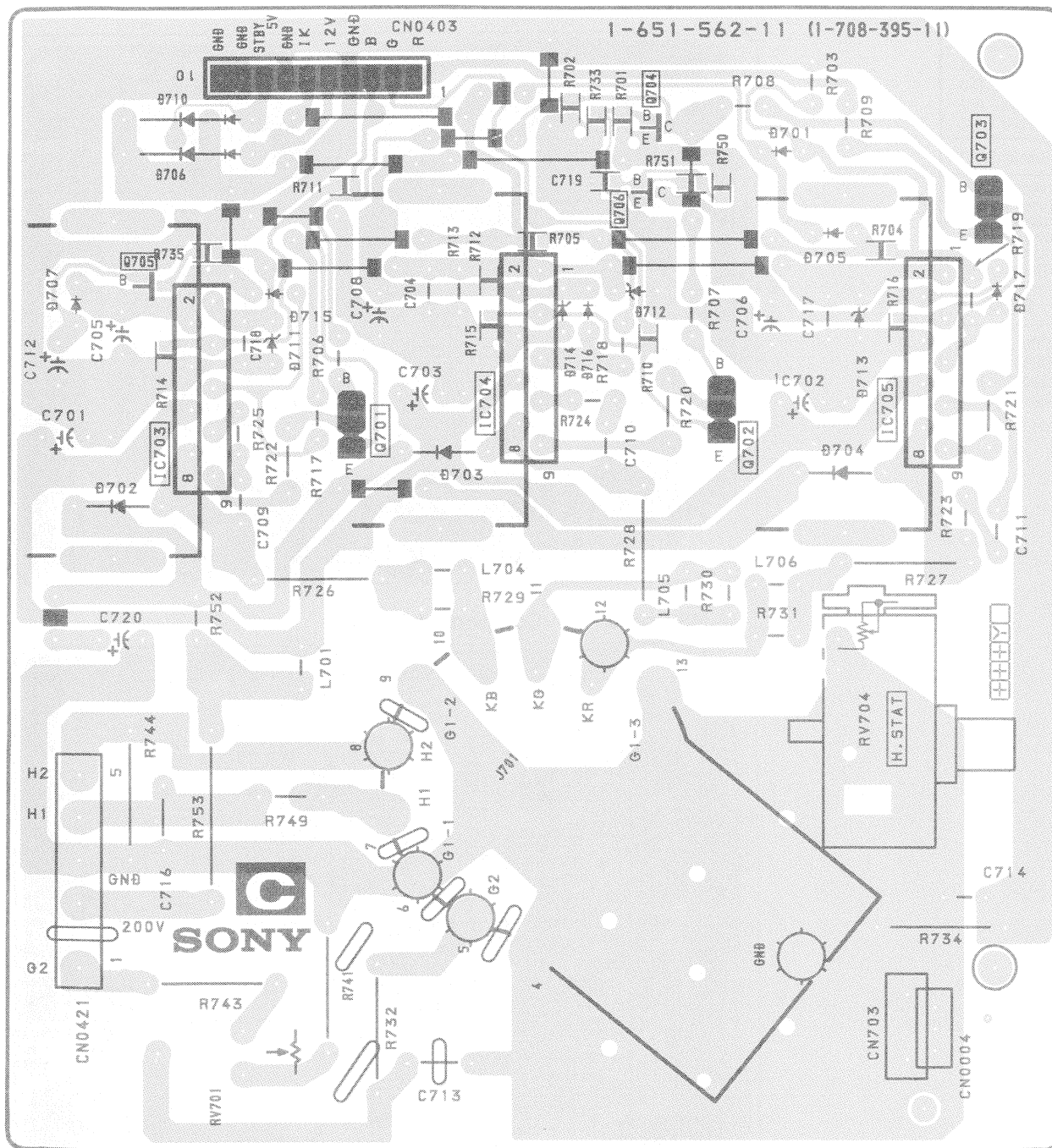




**C**

[VIDEO OUT, G2 REG]

— C Board —

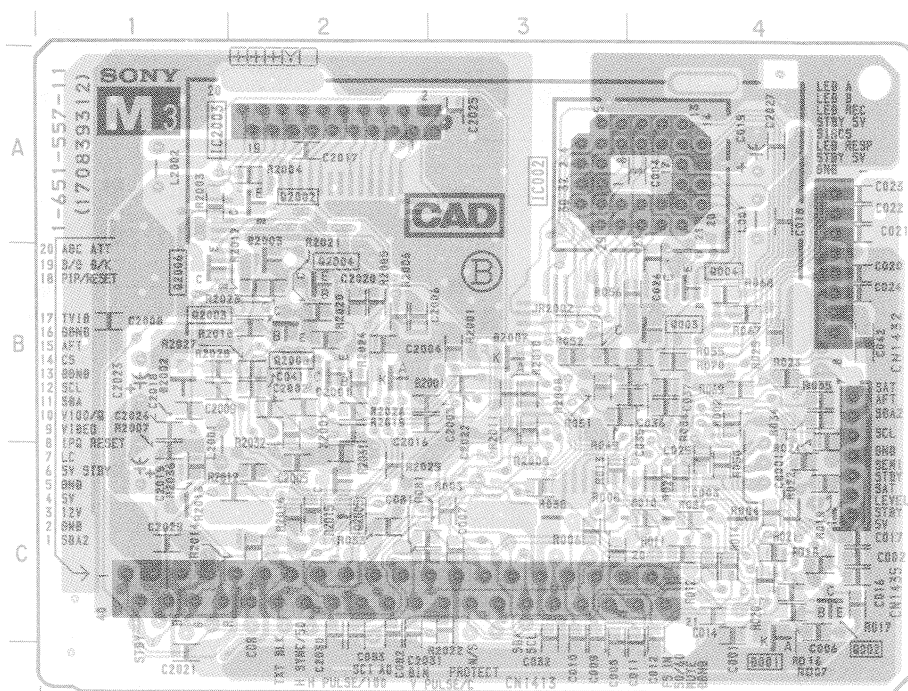


**M3**[ MICRO COMPUTER, MEGATEXT, ]  
[ D-RAM, ROM ]

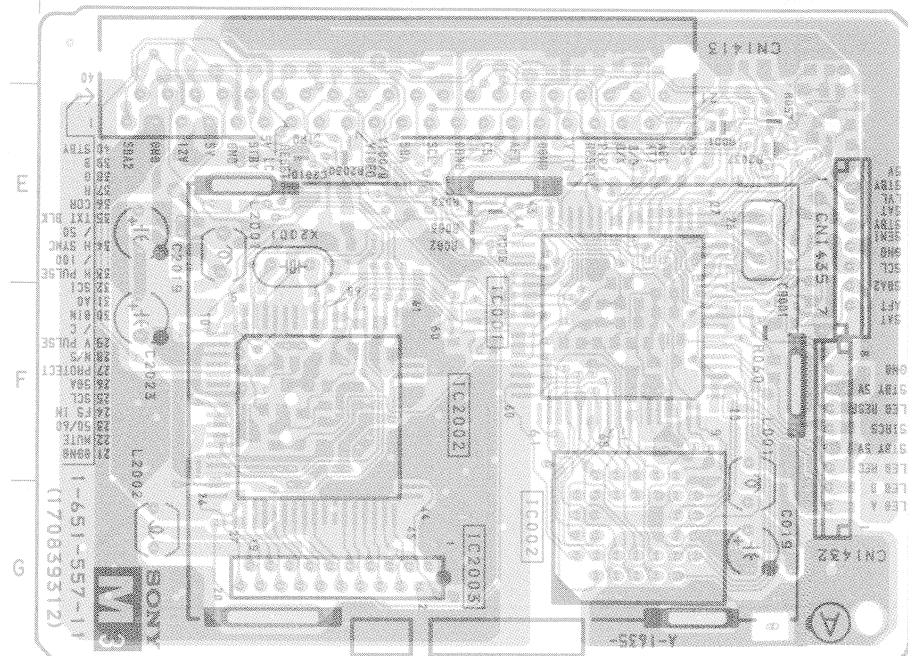
— M3 Board — &lt;Conductor Side&gt;

— M3 Board —

IC	
IC001	F-3
IC002	G-3
IC2002	A-3
IC2003	A-2
TRANSISTOR	
Q002	C-4
Q2002	A-2
Q2004	B-2
Q2005	C-2
Q2006	B-1
Q2008	B-2
DIODE	
D001	D-4
D2001	B-2
D2007	B-3

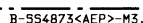


— M3 Board — &lt;Component Side&gt;



- Pattern from the side which enables seeing.
- Pattern of the rear side.








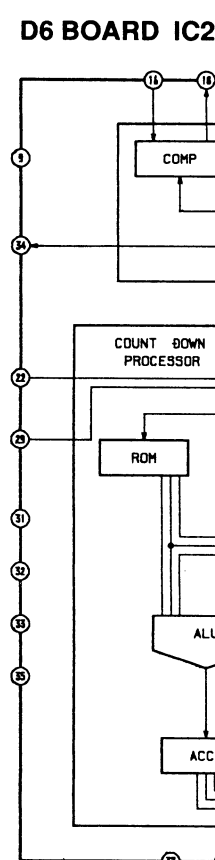
<p>①</p>  <p>4.1 V<sub>p-p</sub> (12MHz)</p>	<p>②</p>  <p>2.8 V<sub>p-p</sub> ( H )</p>	<p>③</p>  <p>4.8 V<sub>p-p</sub> ( H )</p>
---	---	---

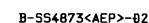
Figure 10 shows three examples of Vp-p waveforms. Each waveform is plotted on a grid. The x-axis represents time, and the y-axis represents voltage. The waveforms are labeled with their respective periods and peak-to-peak voltages.

- (1) A square wave with a period of 1.3 Vp-p (2V).
- (2) A sine wave with a period of 1.8 Vp-p (2V).
- (3) A triangular wave with a period of 0.5 Vp-p (2V).

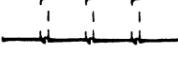
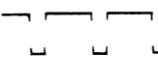
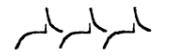
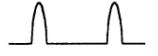
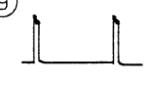






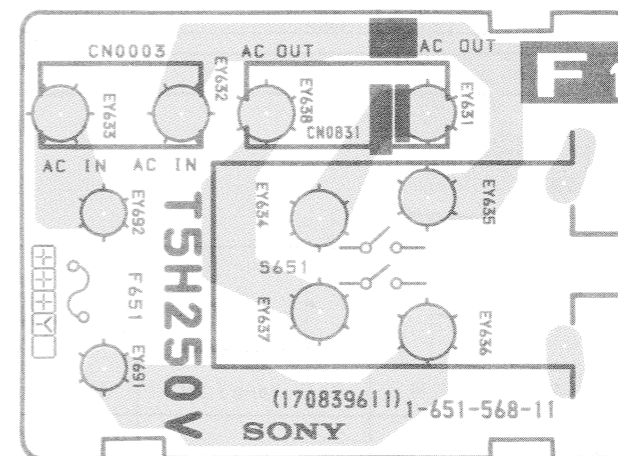


Ref. No.	Name	Function
IC1851	MC78L05A	5V REG
IC1852	BA4558	
IC1853	SN74LS221N	
Q1840	2SC2412K	Q.P. DRIVE
Q1841	2SC4793	Q.P. OUT
Q1851	2SC2412K	INVERTER
Q1854	2SA1037K	V PIN DRIVE 2
Q1855	2SC2412K	V PIN DRIVE 1
Q1856	2SB1186A	V PIN OUT 2
Q1857	2SB1186A	VCC OUT 2
Q1858	2SD1763A	VCC OUT 1
Q1859	2SA1037K	V PIN DRIVE 3
Q1860	2SC2412K	V PIN DRIVE 4
Q1861	2SD1763	V PIN OUT 1
D1840	RGPI0G	SWITCH
D1841	DAN202K	PROTECT
D1851	MTZJ15B	-12V REG
D1852	MTZJ15B	+12V REG
D1853	DA204K	LEVEL SHIFT
D1856	DAN202K	PROTECTOR
D1867	RGPI0G	V PIN SWITCH 1
D1868	RGPI0G	V PIN SWITCH 2
D1882	MTZJ5.6B	S CORRECTION 1
D1883	MTZJ5.6B	S CORRECTION 2

<p>①</p>  <p>5 <math>V_{p-p}</math> (H)</p>	<p>②</p>  <p>3.5 <math>V_{p-p}</math> (2H)</p>	<p>③</p>  <p>3.3 <math>V_{p-p}</math> (2H)</p>
<p>④</p>  <p>5 <math>V_{p-p}</math> (H)</p>	<p>⑤</p>  <p>22.5 <math>V_{p-p}</math> (2V)</p>	<p>⑥</p>  <p>135 <math>V_{p-p}</math> (2V)</p>
<p>⑦</p>  <p>19.0 <math>V_{p-p}</math> (2H)</p>	<p>⑧</p>  <p>180 <math>V_{p-p}</math> (2V)</p>	<p>⑨</p>  <p>2.8 <math>V_{p-p}</math> (2V)</p>

[POWER SWITCH]

— F1 Board —



— 112 —

CN2  
 5P  
 BLK  
 :5-MICRO  
 12V  
 GND  
 VIDEO  
 SSCP  
 ID  
 TO A BOARD  
 CN0106

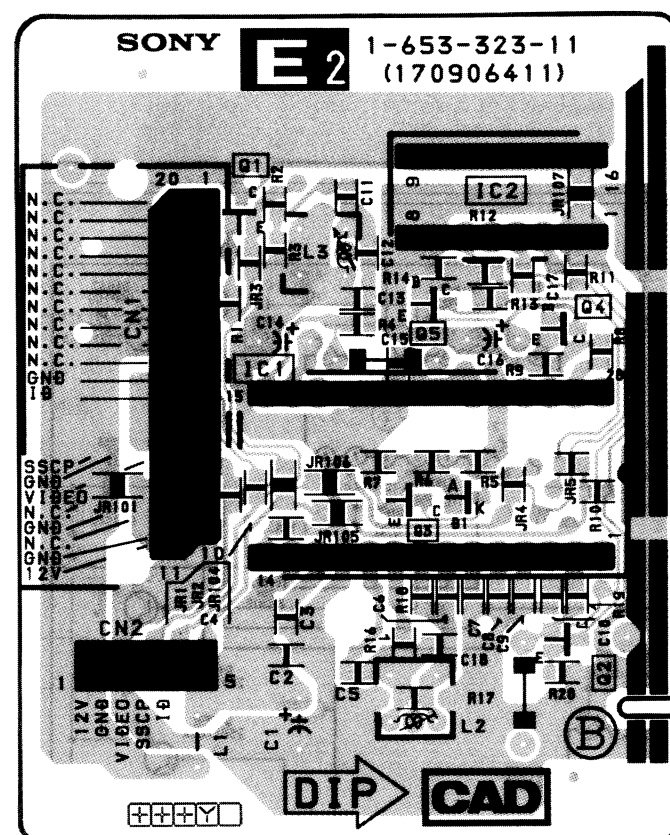
E2

[SECAM-IDENT]

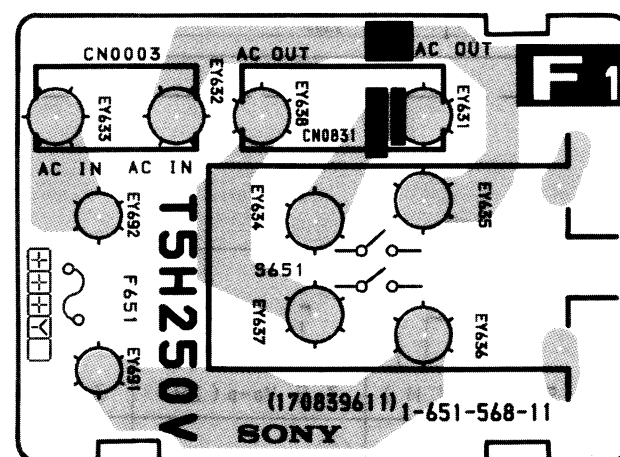
F1

[POWER SWITCH]

— E2 Board —



— F1 Board —



1 | 2 | 3 | 4 | 5 | 6 |

**A**

**B**

**C**

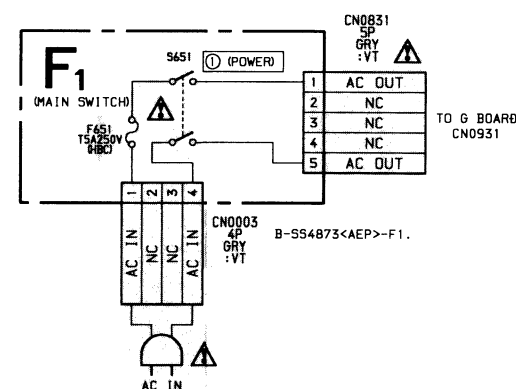
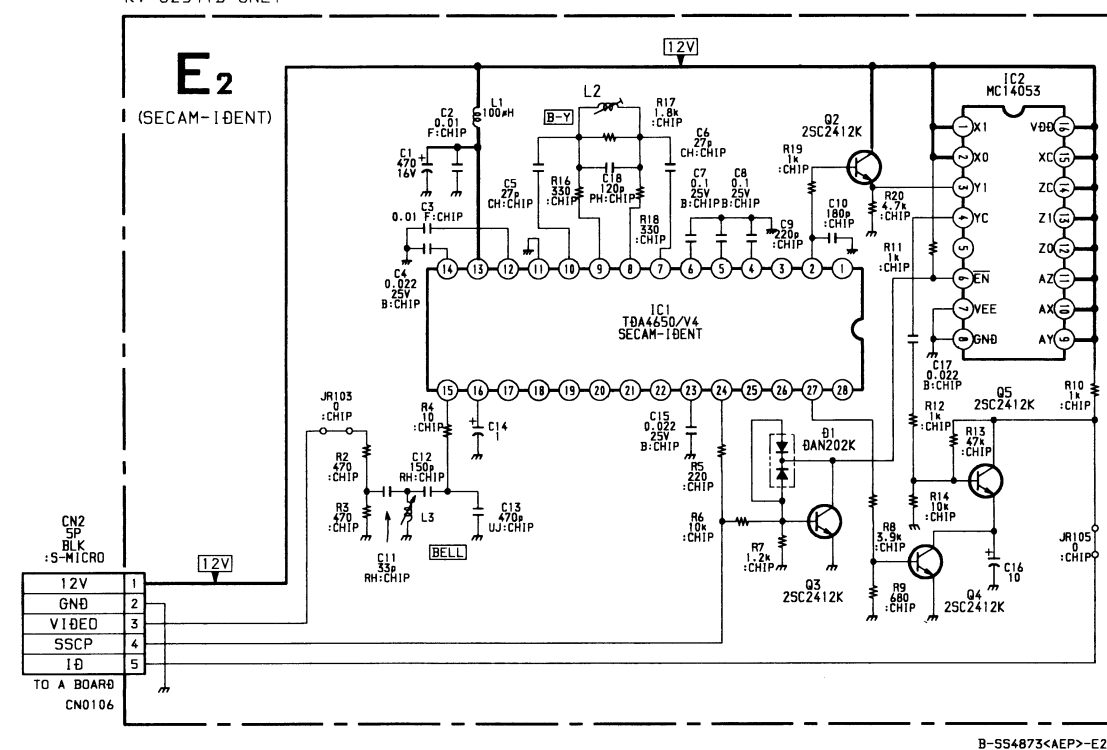
D

**E****F**

## G

H

KV-S2941B ONLY

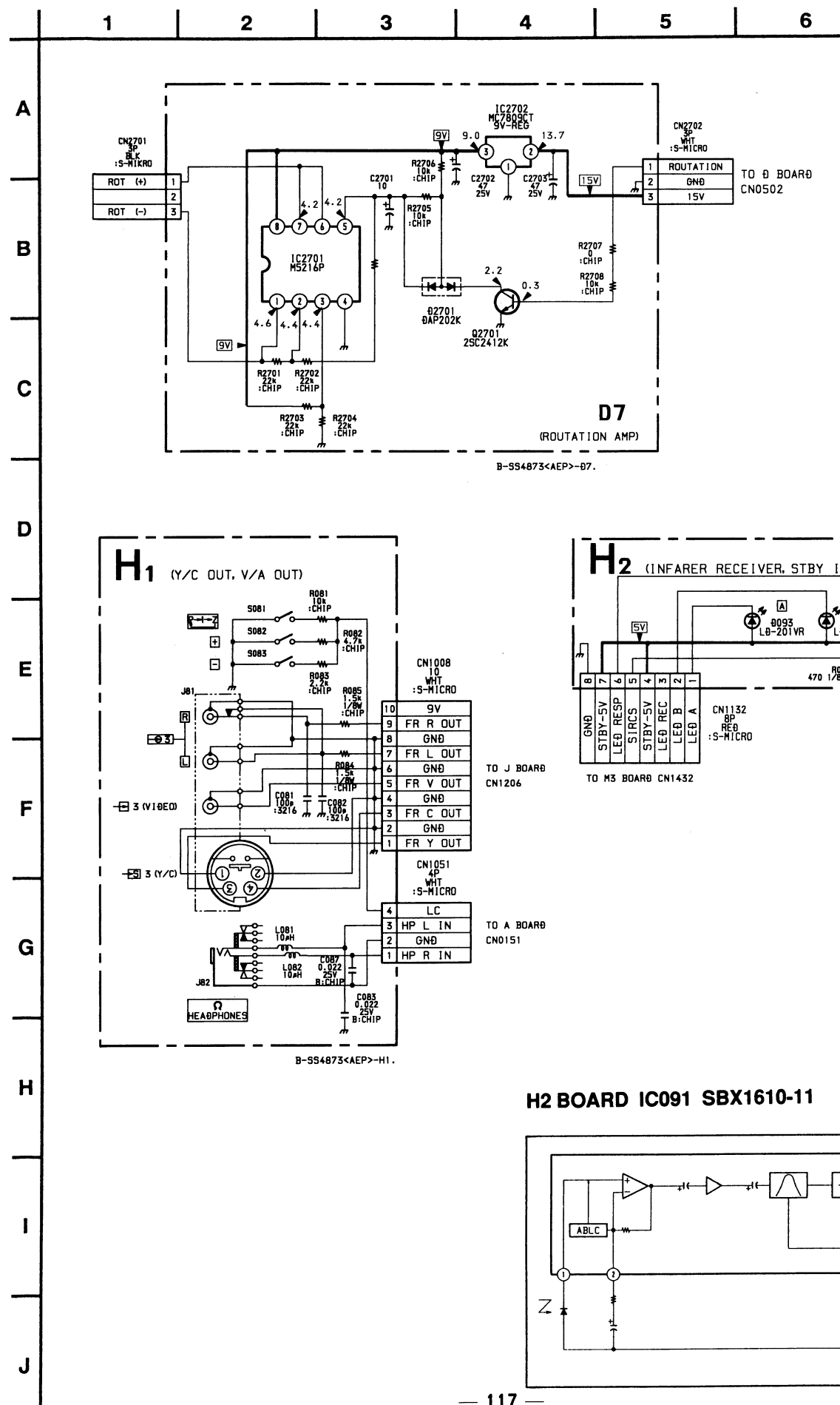


### Schematic diagram

← **E2** **F1** board

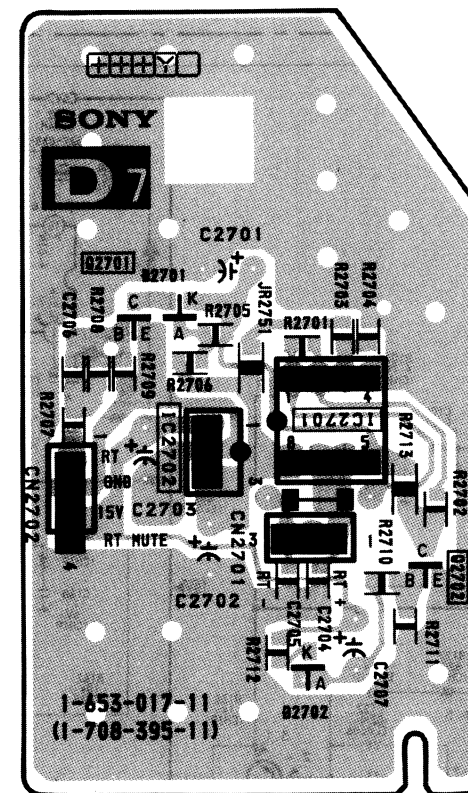
### Schematic diagram

**D2** board →

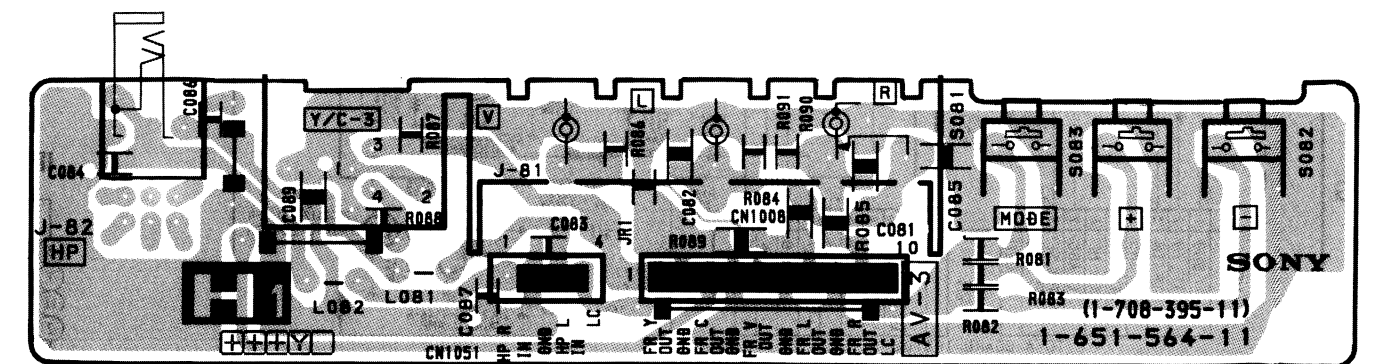


**D7** [ROTATION AMP] **H1** [AUDIO/VIDEO IN, Y/C IN] **H2** [INFRARED RECEIVER, INDICATOR]

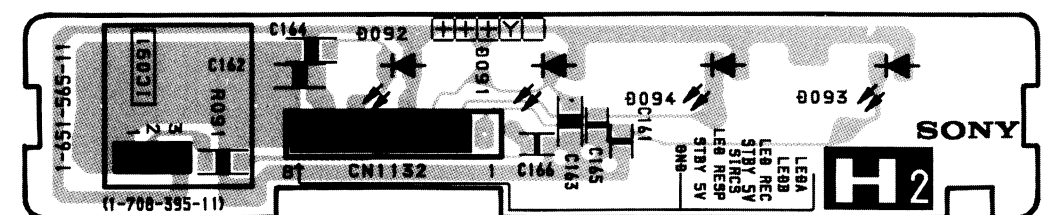
— D7 Board —



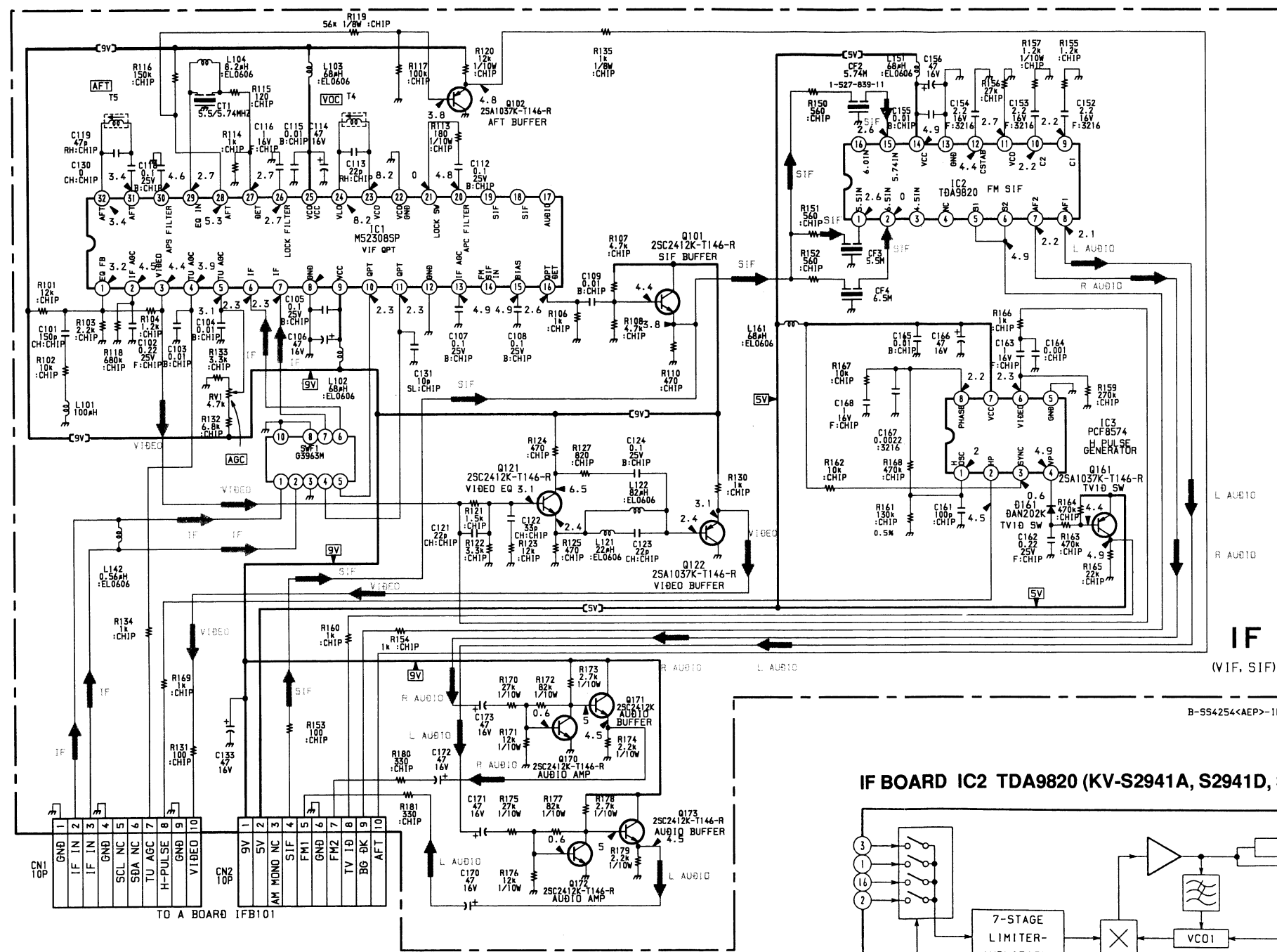
— H1 Board —



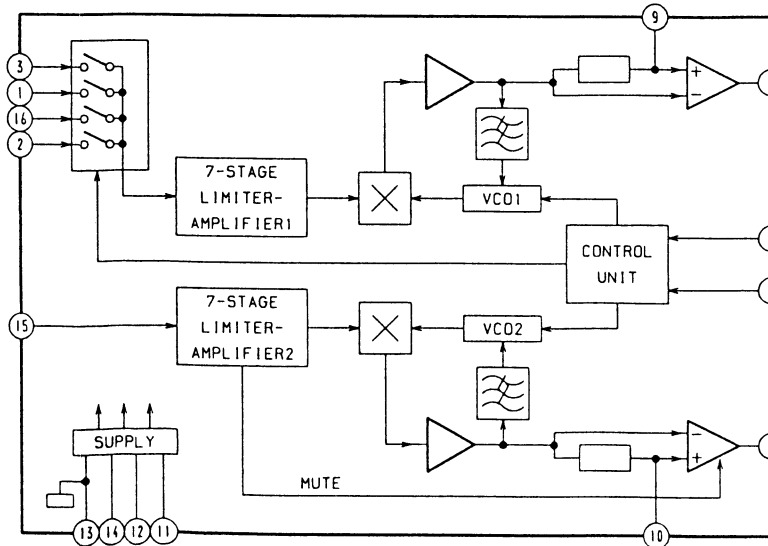
— H2 Board —



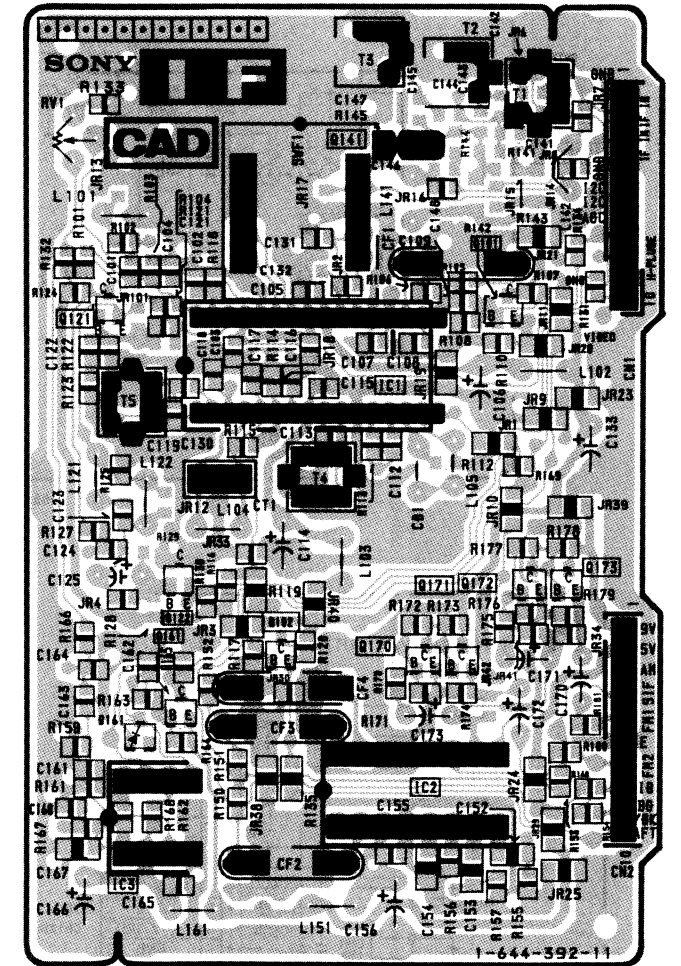
— IF Board — (KV-S2941A, S2941D, S2943E, S2941K)



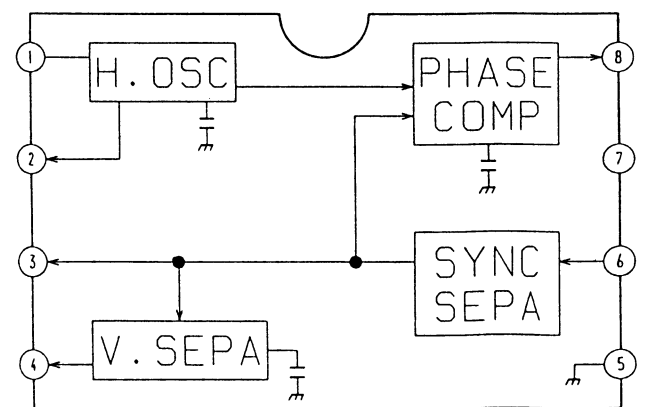
### Schematic diagram



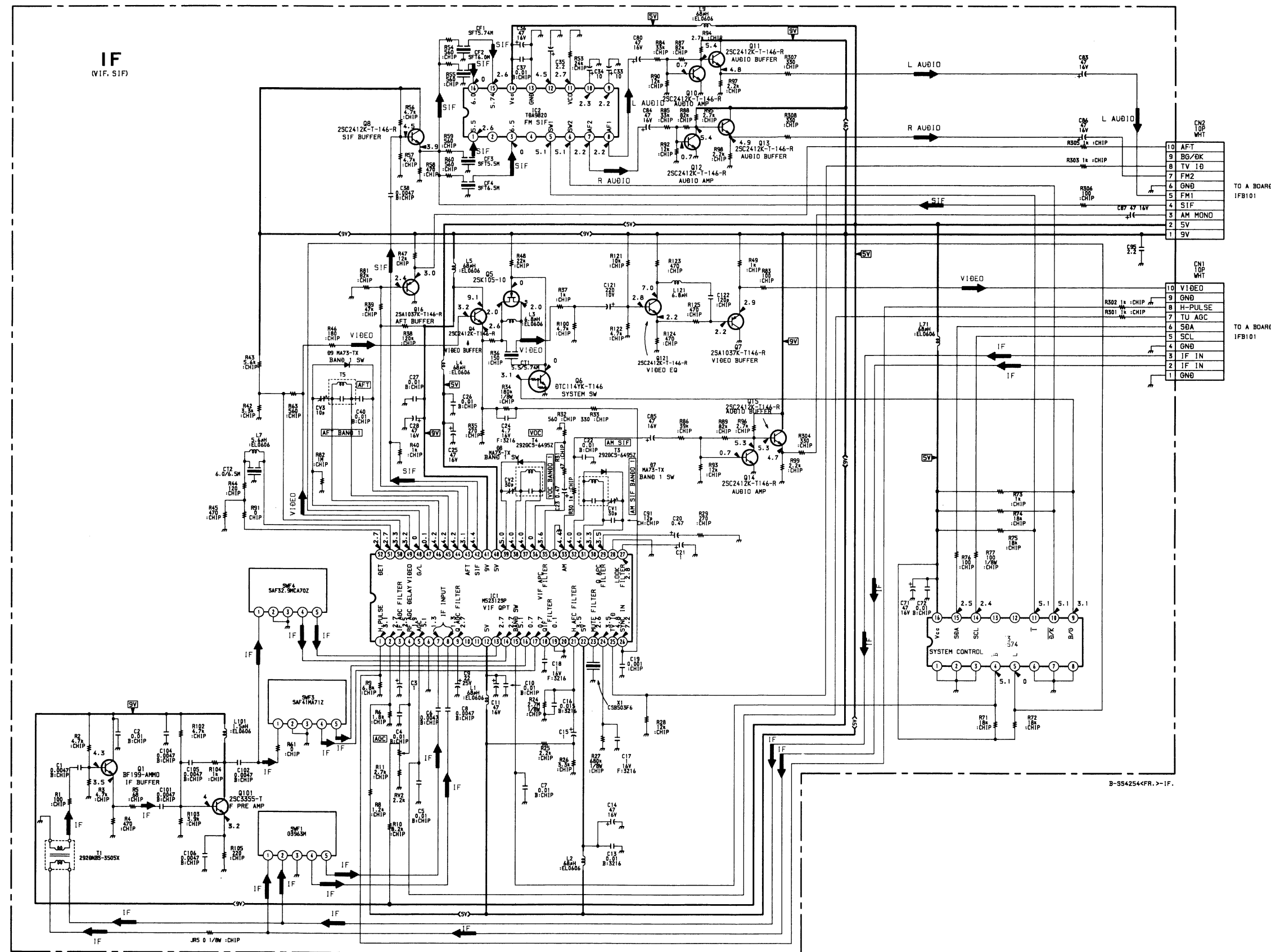
### Schematic diagram



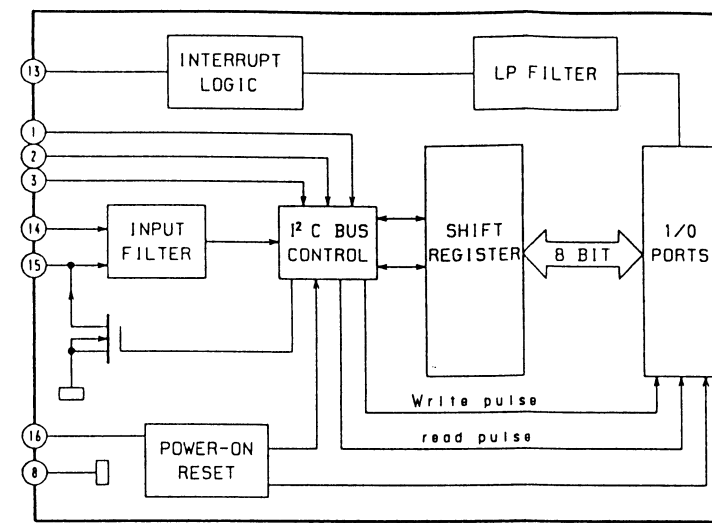
**IF BOARD IC3 BA7046**  
**(KV-S2941A, S2941D, S2943E, S2941K, S2942U)**

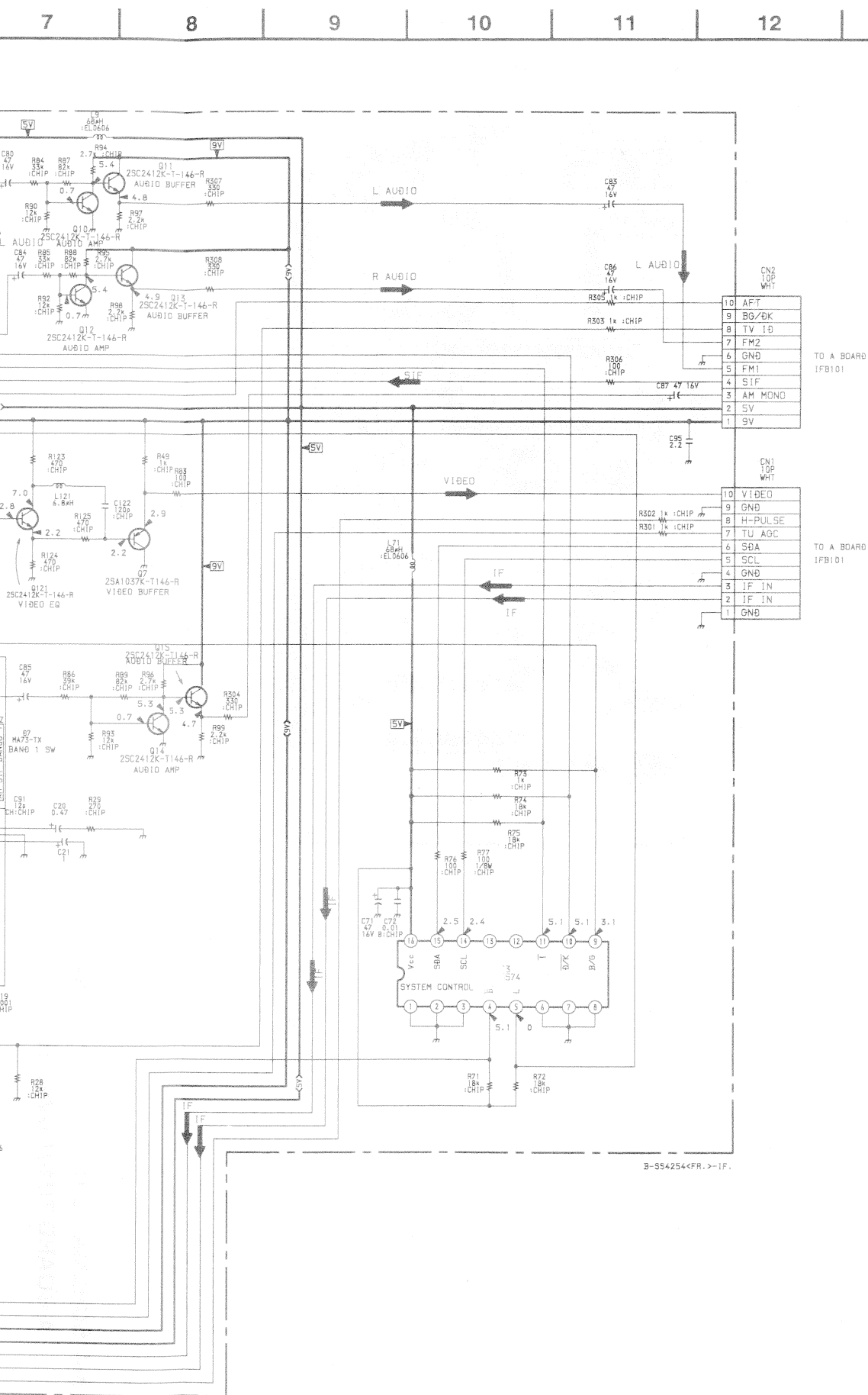


## IFH-389F (KV-S2941B)

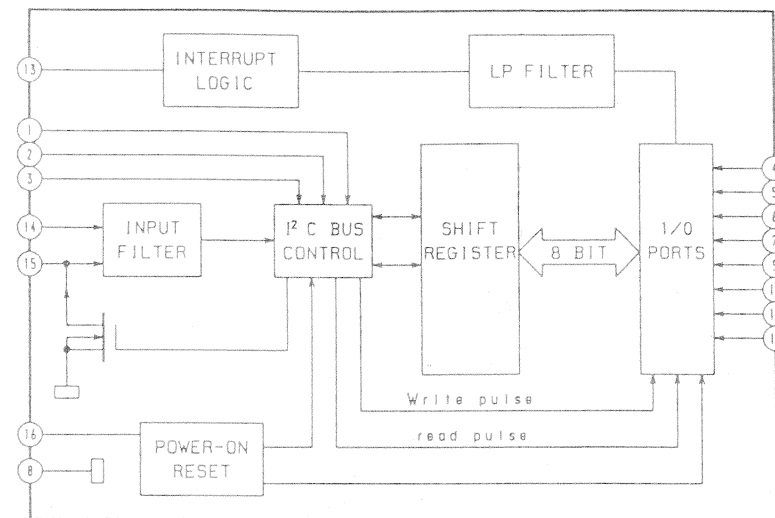


## IF BOARD IC3 PC8574 (KV-S2941B)



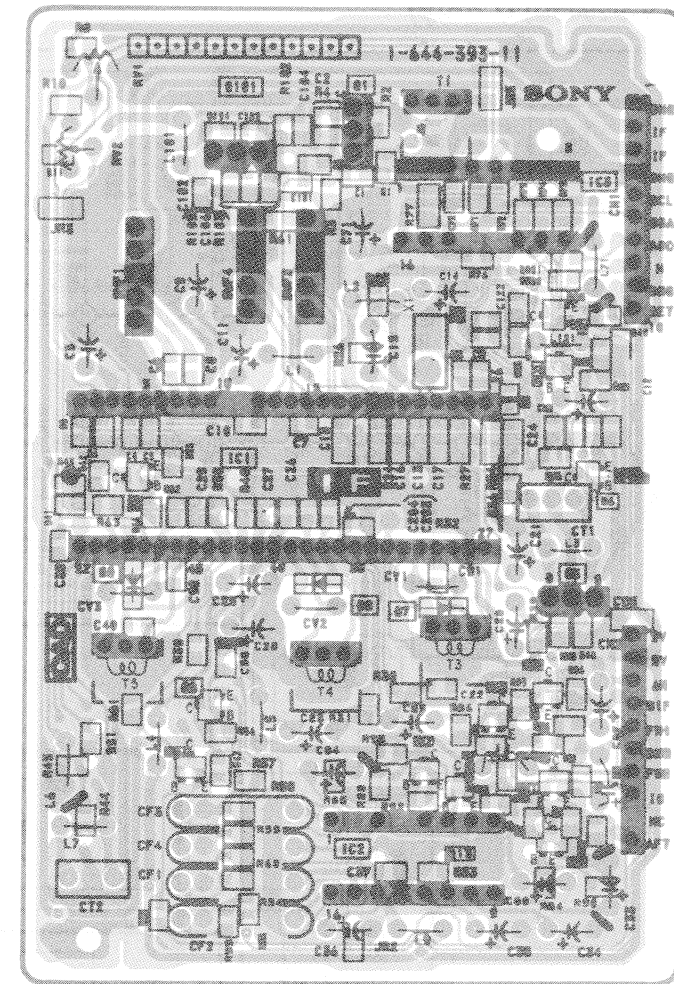




IF BOARD IC3 PC8574 (KV-S2941B)

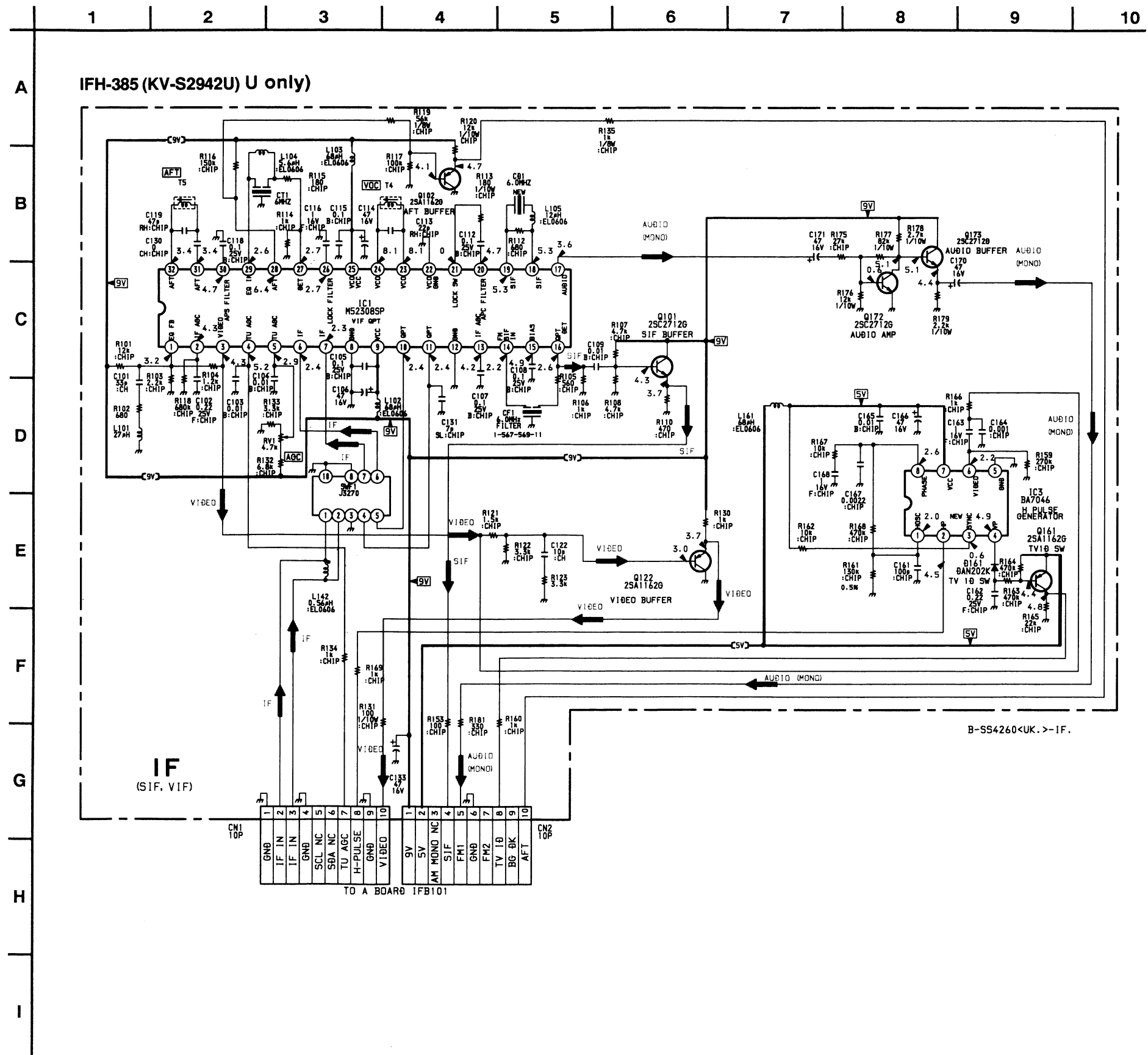


**IF** [VIF, SIF]

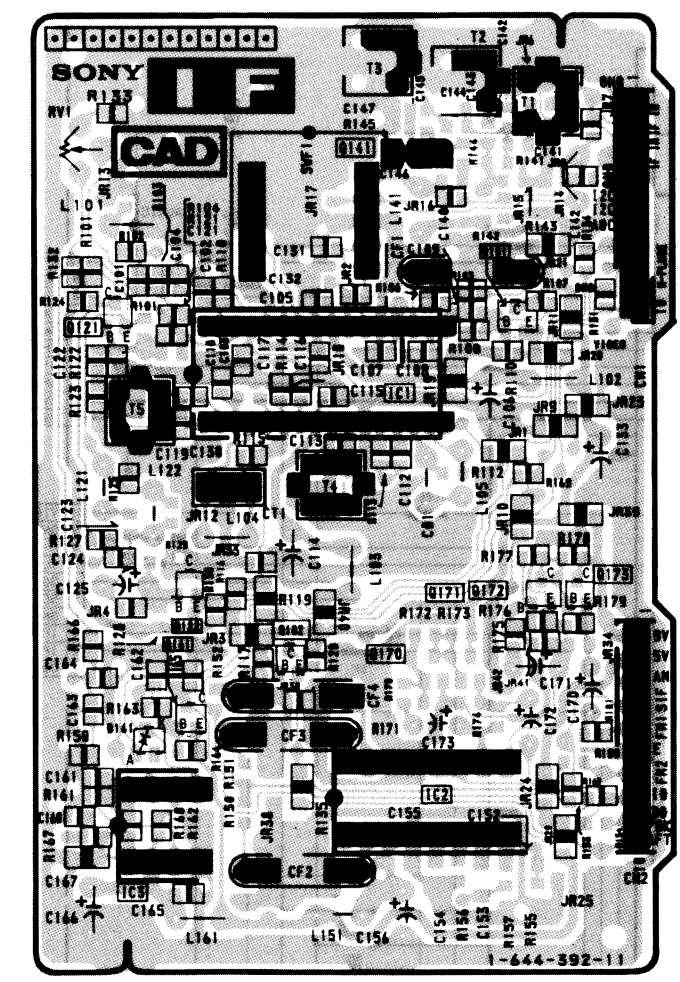
— IF Board — (KV-S2941B)



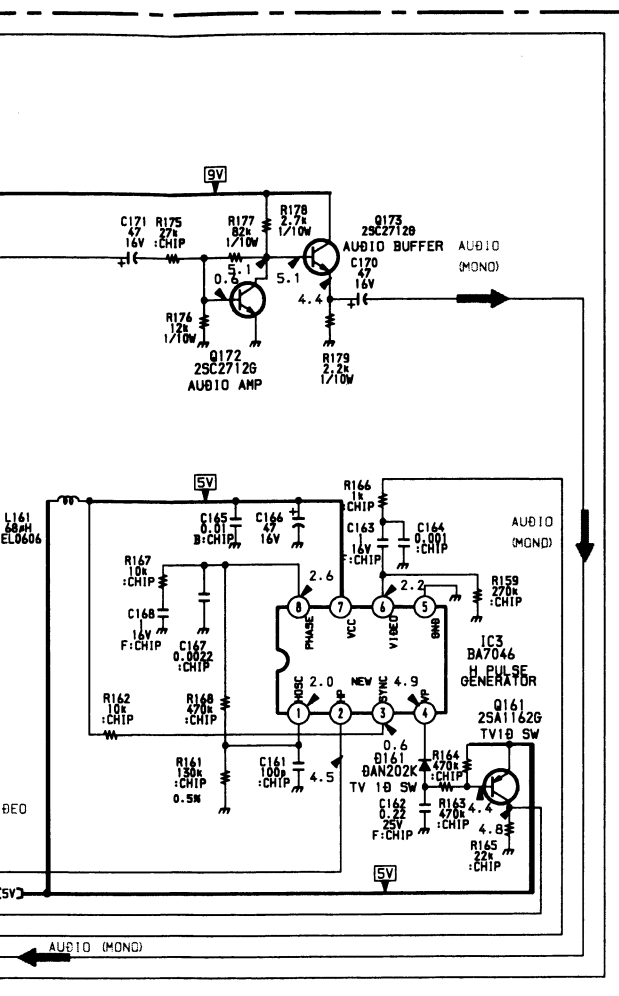
-  : Pattern from the side which enables seeing.
-  : Pattern of the rear side.



— IF Board — (KV-S2942U)



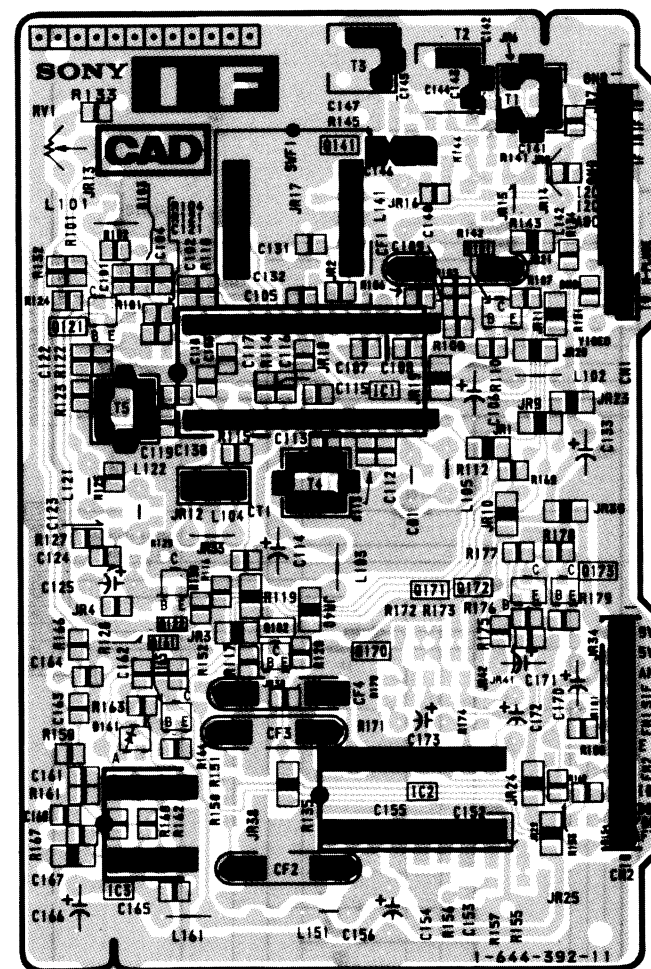
5-4. SCHEMATIC DIAGRAM OF TUNER  
A BOARD TU101 UV916H



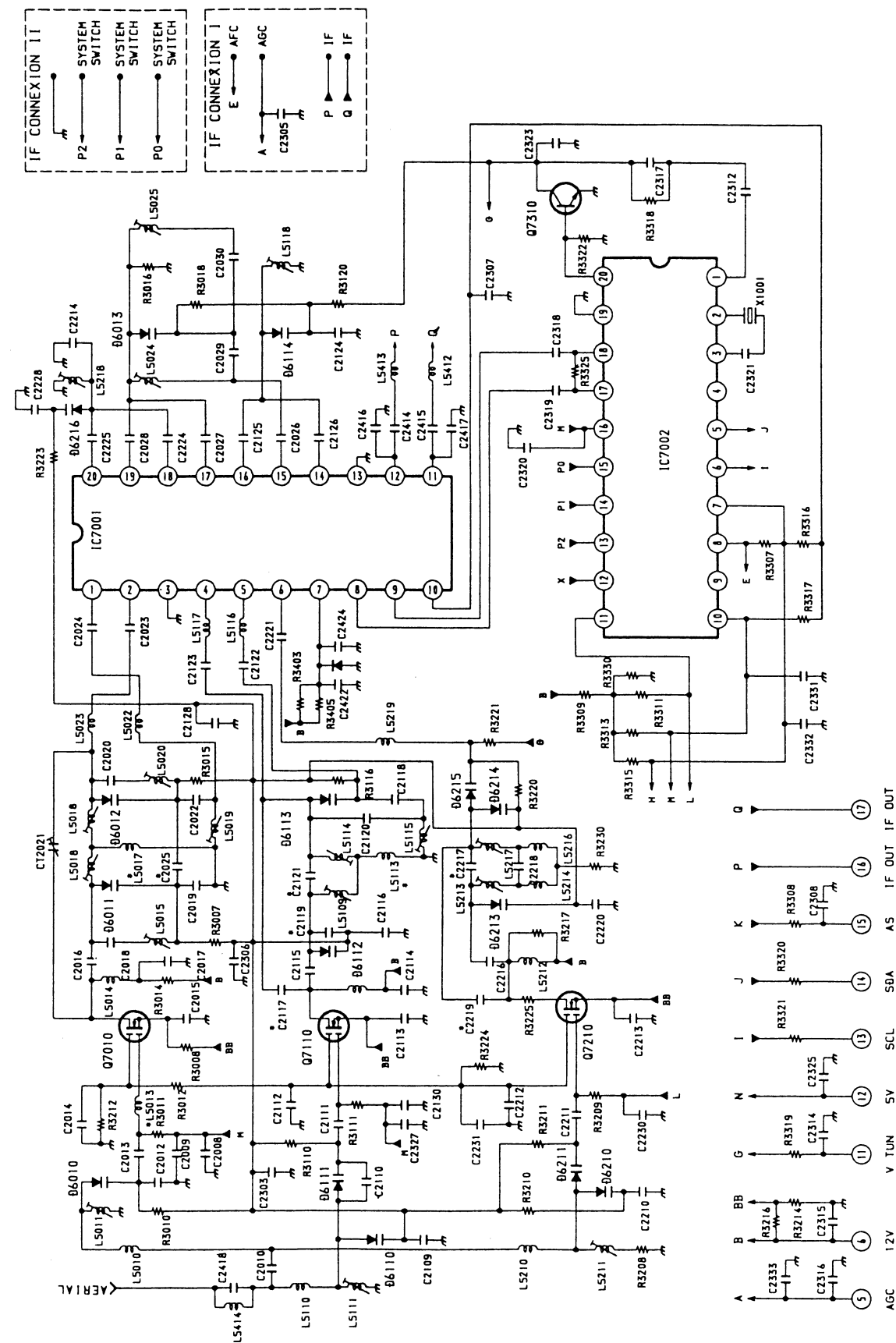
B-SS4260<UK.>-IF.

**IF** [VIF, SIF]

— IF Board — (KV-S2942U)

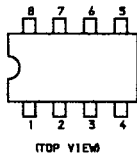


#### 5-4. SCHEMATIC DIAGRAM OF TUNER A BOARD TU101 UV916H

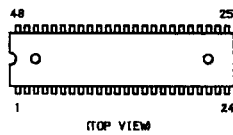


## 5-5. SEMICONDUCTORS

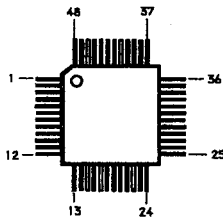
BA4558  
LM393P  
M5216P  
S0A9086-5  
ST24C16CB1  
T0A2822M  
TEA2114  
μPC393C  
μPC4558C  
T0A2822M



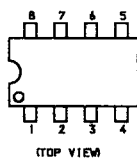
CXA1545AS



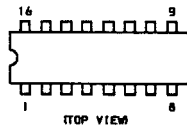
CX02018Q



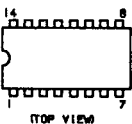
CX02024Q-TL



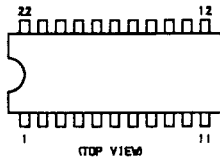
DM-48  
MC14053BCP  
MC34025P  
SN74LS221N  
T0A4661T/V2  
YM7128  
μP04053BC



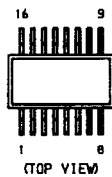
IR2112



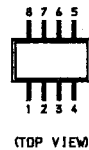
LA7856  
LA7851MK



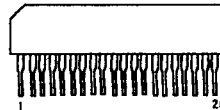
HEF4046BT



LM3580  
LM3580R



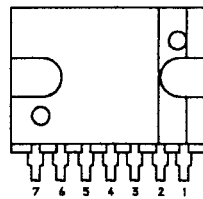
MB81C4256A-70PSZG



MC74F080R2



MC7815CT



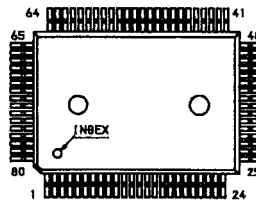
MC78L05A0PRP  
MC78L08ACPRP  
NJM78L05A



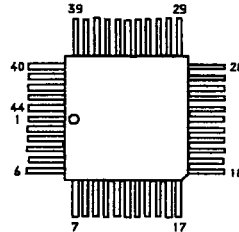
MC7809CT  
NJM78M09FA



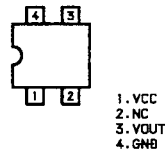
SAA4940H  
MARKING SIDE VIEW



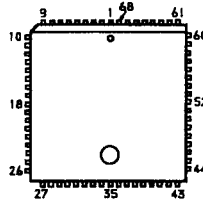
SAA4951  
P87C652FBA-AE2F01



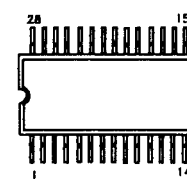
SFH617G-1



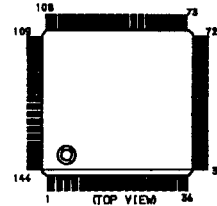
SAA7158  
S0A30C162-GEG  
S0A5273P-C22-GEG



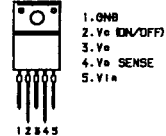
S0A9187-2XGEG  
S0A9188-3XGEG



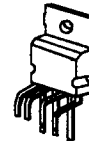
SI-3050CA



SI-3120C



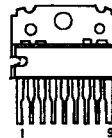
STV9379  
T0A2052



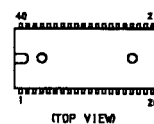
TC4S66F-TE85L



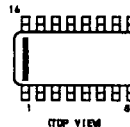
T0A6111Q

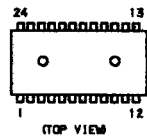


T0A2579B

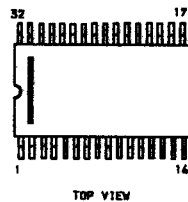


T0A6812-5

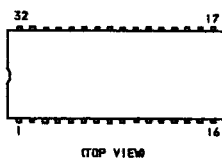


TDA8443B  
TDA9145/N2B

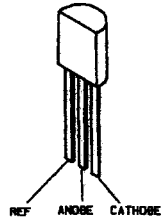
TDA8755



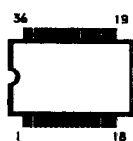
TDA9160/N2



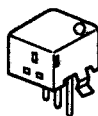
TL431CLP



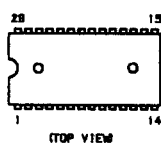
ZA2970-30θTR



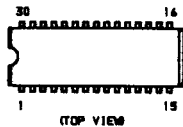
SBX1610-11



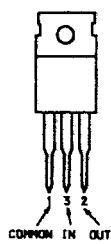
TDA4780



TDA7317



TEA7605

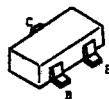


BF199



BF550

0TA114TK  
 0TA144EK  
 0TA144TK  
 0TC114EK  
 0TC124EK  
 0TC144EK  
 JC501Q  
 2SA1037K  
 2SA1162-G  
 2SC1623-L5L6  
 2SC2412K  
 2SC2412K-QR  
 2SC2413KQ  
 2SC2413KT146-Q  
 2SC2413KQ  
 2SC2785-HFE



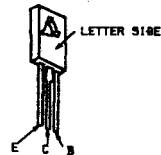
IRF1740G



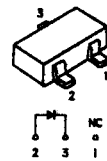
IRF1BC40

2SB1186A  
2SA1837  
2SC4793

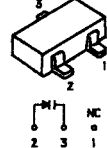
2SC2551Q

2SC2688-LK  
2SC788-52SC3733  
2SB774-34

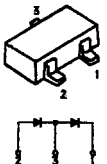
2SC3997CA

2SC4793  
2SB1763ABAS16  
MA3039H-TX  
MA3056M  
R05.6M-B2

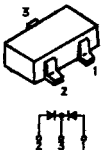
BBY40



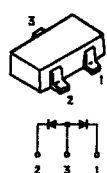
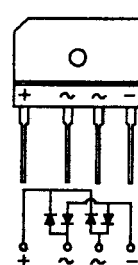
0A204K



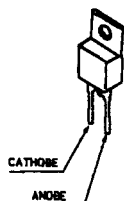
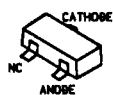
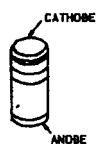
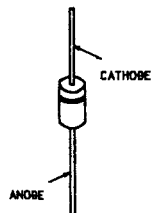
0AN202K



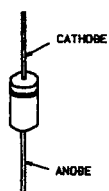
0AP202K

04SB60L  
RBA402L  
RBA406B

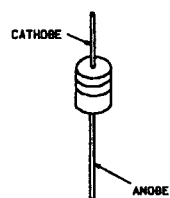
ERØ8M-15

MA3027H  
MA3030HMA3051L-TX  
MA3056H-TXEGP10GPKG23  
EGP10Ø

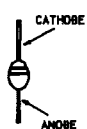
Ø1N20R  
EL1Z  
GP08Ø  
GP08ØPKG23  
MTZJ-9.1  
NTZJ-33C  
NTZJ-39C  
RGP02-20EL-6394  
RGP10GPKG23  
1S583



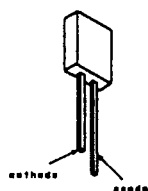
MTZJ-13B  
MTZJ-15B  
MTZJ-18B  
MTZJ-3.6A  
MTZJ-36B  
MTZJ-5.1B  
MTZJ-5.6B  
MTZJ-7.5A  
MTZJ-9.1B  
RØ15ESB2  
RØ18ESB2  
RØ5.1ESB2  
RØ5.6ESB2  
RØ7.5ESB2  
1S5133  
1S5119



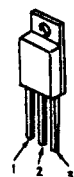
ERC38-06



LØ-201VR



ESAØ39M-06C




## SECTION 6


### EXPLODED VIEWS

## NOTE:

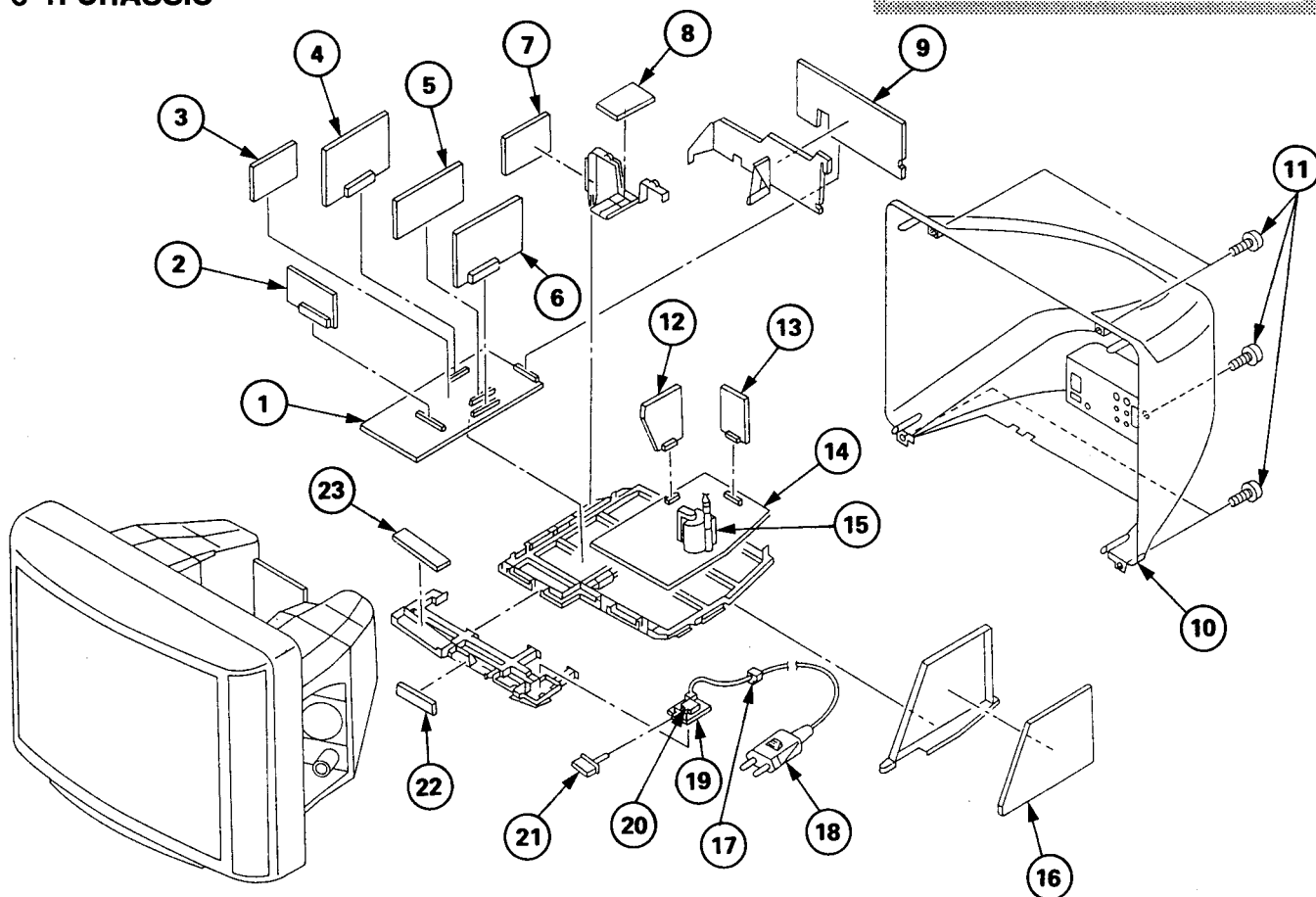
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.







- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

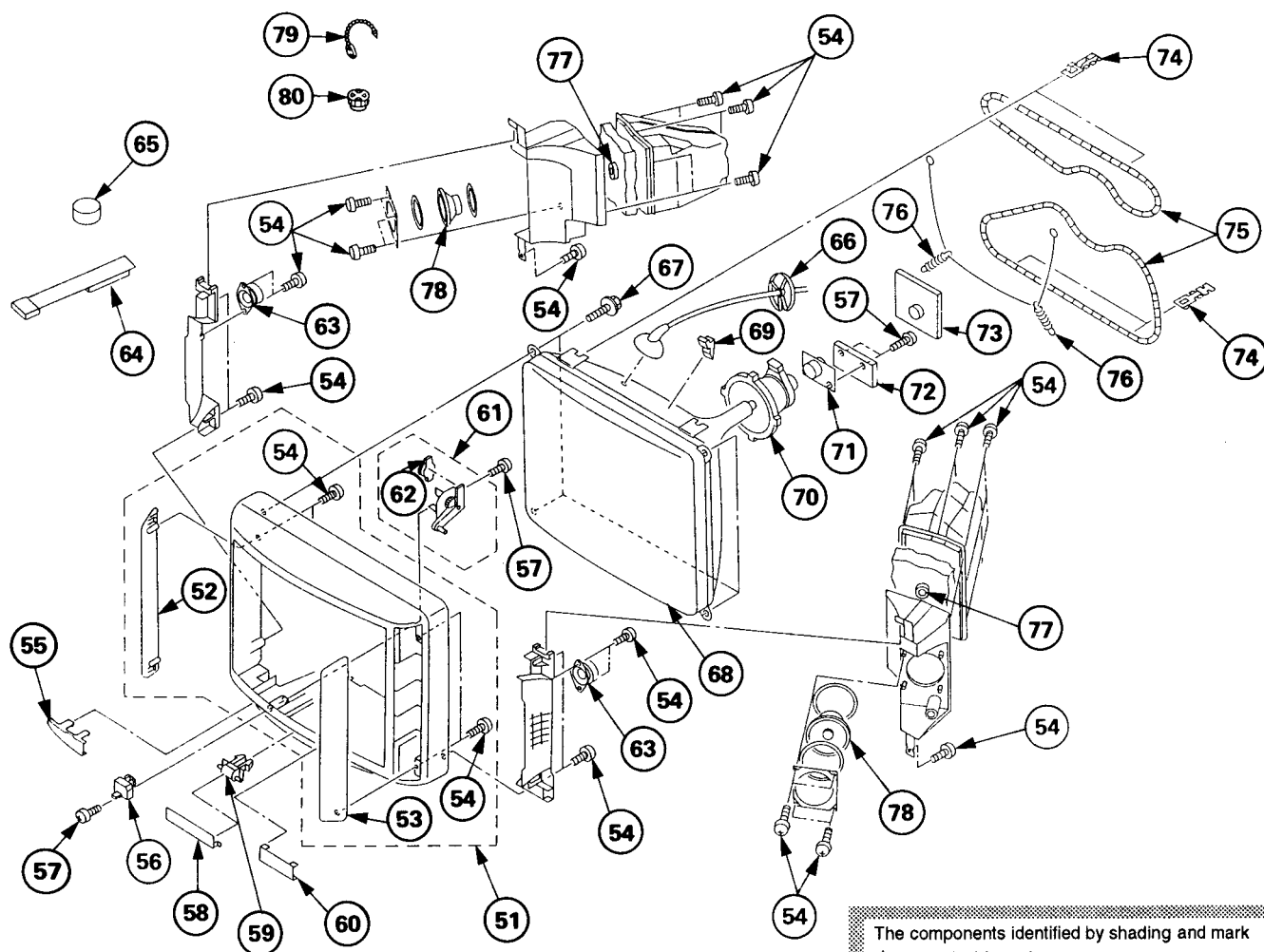
Les composants identifiés par une trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

#### 6-1. CHASSIS



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
1	*A-1632-172-A	A BOARD, COMPLETE (KV-S2941A, S2941D, S2943E, S2941K)		13	*A-1640-125-A	D6 BOARD, COMPLETE	
	*A-1632-187-A	A BOARD, COMPLETE (KV-S2941B)		14	*A-1642-110-A	D BOARD, COMPLETE	
	*A-1632-188-A	A BOARD, COMPLETE (KV-S2942U)		15	 8-598-943-00	TRANSFORMER ASSY, FLYBACK(NX-2661/U2B)	
2	*A-1635-018-A	M3 BOARD, COMPLETE		16	*A-1636-004-A	G BOARD, COMPLETE	
3	 1-693-184-11	TUNER (UP44C) (KV-S2942U)		17	4-038-615-01	HOLDER, AC CORD	
	 1-693-185-11	TUNER (UV916H) (KV-S2941A, S2941B, S2941D, S2943E, S2941K)		18	 1-751-680-11	CORD, POWER(WITH NOISE FILTER) 2.5A/ 250V (KV-S2941A, S2941B, S2941D, S2943E, S2941K)	
4	*A-1630-214-A	A2 BOARD, COMPLETE (KV-S2941A, S2941B, S2941D, S2941K)			 1-590-762-11	CORD, POWER(WITH PLUG) 2.5A/250V (KV-S2942U)	
	*A-1630-215-A	A2 BOARD, COMPLETE (KV-S2943E)		19	*A-1624-028-A	F1 BOARD, COMPLETE	
	*A-1630-216-A	A2 BOARD, COMPLETE (KV-S2942U)		20	 1-571-433-12	SWITCH, PUSH (AC POWER)	
5	*A-1621-050-A	B BOARD, COMPLETE		21	4-202-124-01	BUTTON, POWER	
6	*A-1626-001-A	Q BOARD, COMPLETE		22	*A-1646-056-A	H2 BOARD, COMPLETE	
7	*A-1642-126-A	E2 BOARD, COMPLETE (KV-S2941B)		23	*A-1646-055-A	H1 BOARD, COMPLETE	
8	*A-1640-143-A	D7 BOARD, COMPLETE					
9	*A-1651-060-A	J BOARD, COMPLETE					
10	4-202-146-11	COVER, REAR					
11	4-039-358-01	SCREW (4X16), (+) BV TAPPING					
12	*A-1642-111-A	D2 BOARD, COMPLETE					

## 6-2. PICTURE TUBE



The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with the part number specified.

Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
51	X-4200-149-1	BEZNET ASSY	52-54	64	X-4387-214-1	PERMALLOY ASSY, CORRECTION	
52	4-202-629-01	GRILLE (L), SPEAKER		65	1-452-032-00	MAGNET, DISK; 10MM $\phi$	
53	4-202-628-01	GRILLE (R), SPEAKER		66	*4-202-554-01	HOLDER, HV CABLE	
54	4-039-358-01	SCREW (4X16), (+) BV TAPPING		67	4-036-188-01	SCREW (M), PT	
55	4-202-127-41	PLATE, ORNAMENTAL (KV-S2941A, S2941B, S2941D, S2943E, S2941K)		68	$\Delta$ 8-733-841-05	PICTURE TUBE 29GX (M68KZT10X)	
55	4-202-127-51	PLATE, ORNAMENTAL (KV-S2942U)		69	3-704-495-01	SPACER, DY	
56	4-036-881-01	LOCK ASSY, DOOR		70	$\Delta$ 8-451-444-11	DEFLECTION YOKE Y29GXC (MTY)	
57	4-039-356-01	SCREW (3X12), (+) BV TAPPING		71	$\Delta$ 1-452-509-12	NECK ASSY, PICTURE TUBE (NA-308)	
58	4-202-125-01	DOOR		72	*A-1644-048-A	VM BOARD, COMPLETE	
59	4-202-555-01	SHAFT, DOOR		73	*A-1638-044-A	C BOARD, COMPLETE	
60	4-202-123-01	WINDOW, ORNAMENTAL		74	4-202-415-01	CLIP, DGC (29")	
61	X-4030-459-1	DAMPER ASSY	62	75	$\Delta$ 1-406-807-11	COIL, DEMAGNETIZATION	
62	4-036-880-11	DAMPER		76	4-369-318-51	SPRING, TENSION	
63	1-504-121-21	SPEAKER (SQUAWKER) (5CM)		77	4-200-630-01	CUSHION, FOOT	
				78	1-504-145-11	SPEAKER (12CM)	
				79	4-308-870-00	CLIP, LEAD WIRE	
				80	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM $\phi$	

**B**

## SECTION 7

### ELECTRICAL PARTS LIST

**NOTE:**

The components identified by shading and mark **Δ** are critical for safety.  
Replace only with part number specified.

Les composants identifiés par une trame et une marque **Δ** sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.

- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

**RESISTORS**  
All resistors are in ohms  
F: nonflammable

When indicating parts by reference number, please include the board name.

- CAPACITORS**  
MF:  $\mu$ F, PF:  $\mu$ F
- COILS**  
MMH: mH, UH:  $\mu$ H

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
*A-1621-050-A	B BOARD, COMPLETE	*****					
<CAPACITOR>							
C301	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C1406	1-163-097-00	CERAMIC CHIP 15PF	5% 50V
C302	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1407	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C303	1-164-505-11	CERAMIC CHIP 2.2MF	16V	C1408	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V
C304	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1409	1-124-903-11	ELECT 1MF	20% 50V
C305	1-163-096-00	CERAMIC CHIP 13PF	5% 50V				
C306	1-163-097-00	CERAMIC CHIP 15PF	5% 50V	C1410	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C307	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	C1411	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C308	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	C1412	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C309	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	C1414	1-163-121-00	CERAMIC CHIP 150PF	5% 50V
C310	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1416	1-163-263-11	CERAMIC CHIP 330PF	5% 50V
C311	1-164-005-11	CERAMIC CHIP 0.47MF	25V	C1417	1-163-263-11	CERAMIC CHIP 330PF	5% 50V
C313	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C1418	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C314	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C1419	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C316	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C1420	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C317	1-164-005-11	CERAMIC CHIP 0.47MF	25V	C1421	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C318	1-164-005-11	CERAMIC CHIP 0.47MF	25V	C1422	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C320	1-124-910-11	ELECT 47MF	20% 50V	C1423	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C321	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C1424	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C325	1-163-245-11	CERAMIC CHIP 56PF	5% 50V	C1425	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C330	1-164-005-11	CERAMIC CHIP 0.47MF	25V	C1426	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
C340	1-163-005-11	CERAMIC CHIP 470PF	10% 50V	C1427	1-124-916-11	ELECT 22MF	20% 50V
C360	1-164-005-11	CERAMIC CHIP 0.47MF	25V	C1428	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C501	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1430	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C503	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1431	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C504	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C1432	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C505	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V	C1433	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C506	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1434	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C507	1-126-101-11	ELECT 100MF	20% 16V	C1435	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C508	1-163-121-00	CERAMIC CHIP 150PF	5% 50V	C1437	1-164-343-11	CERAMIC CHIP 0.056MF	10% 25V
C509	1-124-925-11	ELECT 2.2MF	20% 50V	C1438	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C510	1-124-916-11	ELECT 22MF	20% 50V	C1439	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C511	1-124-927-11	ELECT 4.7MF	20% 50V	C1440	1-163-245-11	CERAMIC CHIP 56PF	5% 50V
C512	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1441	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C513	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C1442	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C514	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1443	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C515	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	C1444	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C516	1-163-014-00	CERAMIC CHIP 0.0027MF	10% 50V	C1445	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C520	9-910-999-3A	FILM 0.0022MF	2% 100V	C1446	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C521	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	C1447	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C530	1-164-005-11	CERAMIC CHIP 0.47MF	25V	C1448	1-164-222-11	CERAMIC CHIP 0.22MF	25V
C560	1-164-005-11	CERAMIC CHIP 0.47MF	25V	C1449	1-163-257-11	CERAMIC CHIP 180PF	5% 50V
C1401	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1450	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C1402	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1452	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1403	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	C1453	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1404	1-163-037-11	CERAMIC CHIP 0.022MF	10% 25V	C1454	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1405	1-163-097-00	CERAMIC CHIP 15PF	5% 50V	C1455	1-163-239-11	CERAMIC CHIP 33PF	5% 50V
				C1457	1-164-005-11	CERAMIC CHIP 0.47MF	25V
				C1458	1-164-505-11	CERAMIC CHIP 2.2MF	16V
				C1459	1-164-505-11	CERAMIC CHIP 2.2MF	16V
				C1460	1-163-038-00	CERAMIC CHIP 0.1MF	25V
				C1461	1-164-005-11	CERAMIC CHIP 0.47MF	25V
				C1462	1-164-005-11	CERAMIC CHIP 0.47MF	25V

B

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C1463	1-126-101-11	ELECT 100MF	20% 16V	IC1402	8-759-086-97	IC TDA4661T/V2	
C1464	1-126-101-11	ELECT 100MF	20% 16V	IC1403	8-759-248-15	IC SDA9187-2XGEG	
C1465	1-126-101-11	ELECT 100MF	20% 16V	IC1404	8-759-192-90	IC SDA9188-3XGEG	
C1466	1-126-101-11	ELECT 100MF	20% 16V	IC1405	8-759-248-91	IC SDA9086-5	
C1467	1-126-101-11	ELECT 100MF	20% 16V	IC1406	8-759-183-36	IC TDA8443B	
C1468	1-164-505-11	CERAMIC CHIP 2.2MF	16V	IC1407	8-759-183-36	IC TDA8443B	
C1469	1-164-505-11	CERAMIC CHIP 2.2MF	16V	IC1410	8-759-037-45	IC MC78L08ACPRP	
C1470	1-163-239-11	CERAMIC CHIP 33PF	5% 50V	IC1411	8-759-708-05	IC NJM78L05A	
C1471	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V				
C1472	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V				
C1473	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V				
C1474	1-163-038-00	CERAMIC CHIP 0.1MF	25V				
C1475	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V				
C1476	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V				
C1477	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V				
C1479	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V				
C1480	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V				
C1481	1-164-005-11	CERAMIC CHIP 0.47MF	25V				
C1483	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V				
C1487	1-126-101-11	ELECT 100MF	20% 16V				
C1491	1-163-251-11	CERAMIC CHIP 100PF	5% 50V				
C1492	1-164-505-11	CERAMIC CHIP 2.2MF	16V				
C1493	1-164-505-11	CERAMIC CHIP 2.2MF	16V				
C1494	1-164-505-11	CERAMIC CHIP 2.2MF	16V				
C1495	1-164-505-11	CERAMIC CHIP 2.2MF	16V				
C1496	1-163-239-11	CERAMIC CHIP 33PF	5% 50V				
C1497	1-163-239-11	CERAMIC CHIP 33PF	5% 50V				
C1498	1-163-239-11	CERAMIC CHIP 33PF	5% 50V				
C1499	1-163-239-11	CERAMIC CHIP 33PF	5% 50V				
<CONNECTOR>							
CN302	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P					
<DIODE>							
D301	8-719-914-43	DIODE DAN202K					
D304	8-719-401-41	DIODE MA3051L-TX					
D501	8-719-401-53	DIODE MA3056H-TX					
D1401	8-719-401-41	DIODE MA3051L-TX					
D1405	8-719-914-42	DIODE DA204K					
<DELAY LINE>							
DL301	1-415-652-11	DC (LC)					
<FILTER>							
FL1403	1-236-071-11	ENCAPSULATED COMPONENT					
FL1404	1-236-071-11	ENCAPSULATED COMPONENT					
FL1405	1-236-071-11	ENCAPSULATED COMPONENT					
FL1406	1-236-071-11	ENCAPSULATED COMPONENT					
FL1407	1-236-071-11	ENCAPSULATED COMPONENT					
FL1408	1-236-071-11	ENCAPSULATED COMPONENT					
FL1409	1-236-071-11	ENCAPSULATED COMPONENT					
FL1410	1-236-071-11	ENCAPSULATED COMPONENT					
<IC>							
IC301	8-759-189-90	IC TDA9145/N2B					
IC302	8-759-086-97	IC TDA4661T/V2					
IC303	8-759-037-45	IC MC78L08ACPRP					
IC501	8-759-181-19	IC TDA2579B					
IC1401	8-759-073-16	IC TDA9160/N2					
IC1402	8-759-086-97	IC TDA4661T/V2					
IC1403	8-759-248-15	IC SDA9187-2XGEG					
IC1404	8-759-192-90	IC SDA9188-3XGEG					
IC1405	8-759-248-91	IC SDA9086-5					
IC1406	8-759-183-36	IC TDA8443B					
IC1407	8-759-183-36	IC TDA8443B					
IC1410	8-759-037-45	IC MC78L08ACPRP					
IC1411	8-759-708-05	IC NJM78L05A					
<COIL>							
L307	1-408-405-00	INDUCTOR	4.7UH				
L1401	1-408-418-00	INDUCTOR	56UH				
L1402	1-408-418-00	INDUCTOR	56UH				
<TRANSISTOR>							
Q301	8-729-901-00	TRANSISTOR DTC124EK					
Q302	8-729-216-22	TRANSISTOR 2SA1162-G					
Q305	8-729-901-01	TRANSISTOR DTC144EK					
Q310	8-729-920-74	TRANSISTOR 2SC2412K-QR					
Q311	8-729-216-22	TRANSISTOR 2SA1162-G					
Q313	8-729-920-74	TRANSISTOR 2SC2412K-QR					
Q501	8-729-920-74	TRANSISTOR 2SC2412K-QR					
Q502	8-729-920-74	TRANSISTOR 2SC2412K-QR					
Q503	8-729-920-74	TRANSISTOR 2SC2412K-QR					
Q504	8-729-216-22	TRANSISTOR 2SA1162-G					
Q505	8-729-900-53	TRANSISTOR DTC114EK					
Q506	8-729-901-04	TRANSISTOR DTA114EK					
Q507	8-729-920-74	TRANSISTOR 2SC2412K-QR					
Q510	8-729-900-53	TRANSISTOR DTC114EK					
Q1401	8-729-920-74	TRANSISTOR 2SC2412K-QR					
Q1402	8-729-920-74	TRANSISTOR 2SC2412K-QR					
Q1403	8-729-920-74	TRANSISTOR 2SC2412K-QR					
Q1404	8-729-216-22	TRANSISTOR 2SA1162-G					
Q1405	8-729-920-74	TRANSISTOR 2SC2412K-QR					
Q1406	8-729-920-74	TRANSISTOR 2SC2412K-QR					
Q1407	8-729-216-22	TRANSISTOR 2SA1162-G					
Q1408	8-729-216-22	TRANSISTOR 2SA1162-G					
Q1409	8-729-216-22	TRANSISTOR 2SA1162-G					
Q1416	8-729-920-74	TRANSISTOR 2SC2412K-QR					
Q1417	8-729-900-53	TRANSISTOR DTC114EK					
Q1419	8-729-900-53	TRANSISTOR DTC114EK					
Q1421	8-729-920-74	TRANSISTOR 2SC2412K-QR					
Q1422	8-729-216-22	TRANSISTOR 2SA1162-G					
Q1423	8-729-920-74	TRANSISTOR 2SC2412K-QR					
Q1424	8-729-920-74	TRANSISTOR 2SC2412K-QR					
Q1425	8-729-920-74	TRANSISTOR 2SC2412K-QR					
Q1426	8-729-900-53	TRANSISTOR DTC114EK					
Q1430	8-729-900-53	TRANSISTOR DTC114EK					
Q1431	8-729-901-04	TRANSISTOR DTA114EK					
<RESISTOR>							
R301	1-216-041-00	METAL GLAZE	470 5% 1/10W				
R302	1-216-041-00	METAL GLAZE	470 5% 1/10W				
R303	1-216-025-00	METAL GLAZE	100 5% 1/10W				
R304	1-216-025-00	METAL GLAZE	100 5% 1/10W				
R306	1-216-035-00	METAL GLAZE	270 5% 1/10W				
R307	1-216-049-00	METAL GLAZE	1K 5% 1/10W				
R312	1-216-041-00	METAL GLAZE	470 5% 1/10W				
R313	1-216-081-00	METAL GLAZE	22K 5% 1/10W				
R316	1-216-085-00	METAL GLAZE	33K 5% 1/10W				
R317	1-216-073-00	METAL GLAZE	10K 5% 1/10W				

B

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R318	1-216-041-00	METAL GLAZE	470 5% 1/10W	R1418	1-216-041-00	METAL GLAZE	470 5% 1/10W
R319	1-216-041-00	METAL GLAZE	470 5% 1/10W	R1419	1-216-027-00	METAL GLAZE	120 5% 1/10W
R320	1-216-025-00	METAL GLAZE	100 5% 1/10W	R1421	1-216-033-00	METAL GLAZE	220 5% 1/10W
R321	1-216-039-00	METAL GLAZE	390 5% 1/10W	R1422	1-216-023-00	METAL GLAZE	82 5% 1/10W
R322	1-216-041-00	METAL GLAZE	470 5% 1/10W	R1423	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R331	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R1424	1-216-041-00	METAL GLAZE	470 5% 1/10W
R332	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R1425	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R333	1-216-075-00	METAL GLAZE	12K 5% 1/10W	R1427	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R340	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1429	1-216-091-00	METAL GLAZE	56K 5% 1/10W
R341	1-216-041-00	METAL GLAZE	470 5% 1/10W	R1430	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R342	1-216-047-00	METAL GLAZE	820 5% 1/10W	R1431	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R343	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1432	1-216-025-00	METAL GLAZE	100 5% 1/10W
R344	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1433	1-216-025-00	METAL GLAZE	100 5% 1/10W
R360	1-216-295-00	METAL GLAZE	0 5% 1/10W	R1434	1-216-043-00	METAL GLAZE	560 5% 1/10W
R365	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1435	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R370	1-216-295-00	METAL GLAZE	0 5% 1/10W	R1436	1-216-043-00	METAL GLAZE	560 5% 1/10W
R371	1-216-295-00	METAL GLAZE	0 5% 1/10W	R1437	1-216-031-00	METAL GLAZE	180 5% 1/10W
R501	1-216-687-11	METAL CHIP	33K 0.50% 1/10W	R1438	1-216-045-00	METAL GLAZE	680 5% 1/10W
R502	1-216-075-00	METAL GLAZE	12K 5% 1/10W	R1439	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R503	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R1440	1-216-025-00	METAL GLAZE	100 5% 1/10W
R506	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1441	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R508	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1442	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R509	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1443	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R510	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R1444	1-216-041-00	METAL GLAZE	470 5% 1/10W
R512	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R1445	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R513	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1446	1-216-079-00	METAL GLAZE	18K 5% 1/10W
R514	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1449	1-216-033-00	METAL GLAZE	220 5% 1/10W
R515	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R1450	1-216-033-00	METAL GLAZE	220 5% 1/10W
R516	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1453	1-216-025-00	METAL GLAZE	100 5% 1/10W
R517	1-216-047-00	METAL GLAZE	820 5% 1/10W	R1454	1-216-025-00	METAL GLAZE	100 5% 1/10W
R518	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1457	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R519	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R1458	1-216-033-00	METAL GLAZE	220 5% 1/10W
R520	1-216-009-00	METAL GLAZE	22 5% 1/10W	R1459	1-216-033-00	METAL GLAZE	220 5% 1/10W
R521	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W	R1460	1-216-033-00	METAL GLAZE	220 5% 1/10W
R522	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1462	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R523	1-216-041-00	METAL GLAZE	470 5% 1/10W	R1463	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R524	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R1468	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R525	1-216-095-00	METAL GLAZE	82K 5% 1/10W	R1469	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R526	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1470	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R527	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1471	1-216-037-00	METAL GLAZE	330 5% 1/10W
R528	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1472	1-216-033-00	METAL GLAZE	220 5% 1/10W
R529	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R1473	1-216-033-00	METAL GLAZE	220 5% 1/10W
R530	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1474	1-216-033-00	METAL GLAZE	220 5% 1/10W
R531	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1475	1-216-295-00	METAL GLAZE	0 5% 1/10W
R532	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	R1477	1-216-022-00	METAL GLAZE	75 5% 1/10W
R533	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R1478	1-216-022-00	METAL GLAZE	75 5% 1/10W
R535	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R1479	1-216-022-00	METAL GLAZE	75 5% 1/10W
R550	1-216-041-00	METAL GLAZE	470 5% 1/10W	R1480	1-216-025-00	METAL GLAZE	100 5% 1/10W
R1401	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1481	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R1402	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1483	1-216-079-00	METAL GLAZE	18K 5% 1/10W
R1403	1-216-025-00	METAL GLAZE	100 5% 1/10W	R1484	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R1404	1-216-025-00	METAL GLAZE	100 5% 1/10W	R1485	1-216-041-00	METAL GLAZE	470 5% 1/10W
R1405	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1486	1-216-029-00	METAL GLAZE	150 5% 1/10W
R1406	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W	R1487	1-216-033-00	METAL GLAZE	220 5% 1/10W
R1407	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R1489	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1408	1-216-041-00	METAL GLAZE	470 5% 1/10W	R1490	1-216-043-00	METAL GLAZE	560 5% 1/10W
R1410	1-216-029-00	METAL GLAZE	150 5% 1/10W	R1493	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R1411	1-216-041-00	METAL GLAZE	470 5% 1/10W	R1494	1-216-025-00	METAL GLAZE	100 5% 1/10W
R1412	1-216-041-00	METAL GLAZE	470 5% 1/10W	R1495	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R1413	1-216-041-00	METAL GLAZE	470 5% 1/10W	R1496	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1414	1-216-045-00	METAL GLAZE	680 5% 1/10W	R1497	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R1415	1-216-045-00	METAL GLAZE	680 5% 1/10W	R1498	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R1416	1-216-029-00	METAL GLAZE	150 5% 1/10W	R1499	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R1417	1-216-033-00	METAL GLAZE	220 5% 1/10W				

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.

**B** **F1** **Q**

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<VARIABLE RESISTOR>				C31	1-163-105-00	CERAMIC CHIP 33PF	5% 50V
RV501	1-241-763-11	RES, ADJ, CERMET 4.7K		C32	1-124-925-11	ELECT 2.2MF	20% 50V
<CRYSTAL>				C33	1-124-907-11	ELECT 10MF	20% 50V
X301	1-567-504-11	OSCILLATOR, CRYSTAL		C34	1-163-038-00	CERAMIC CHIP 0.1MF	25V
X302	1-567-505-11	OSCILLATOR, CRYSTAL		C35	1-124-907-11	ELECT 10MF	20% 50V
X1401	1-567-505-11	OSCILLATOR, CRYSTAL		C36	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
X1402	1-567-504-11	OSCILLATOR, CRYSTAL		C37	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
*****				C38	1-163-161-00	CERAMIC CHIP 15PF	5% 50V
*A-1624-028-A F1 BOARD, COMPLETE				C39	1-163-161-00	CERAMIC CHIP 15PF	5% 50V
*****				C40	1-163-239-11	CERAMIC CHIP 33PF	5% 50V
<CONNECTOR>				C41	1-163-038-00	CERAMIC CHIP 0.1MF	25V
CN0003 $\Delta$	*1-580-844-11	PIN, CONNECTOR (POWER)		C42	1-124-907-11	ELECT 10MF	20% 50V
CN0831 $\Delta$	*1-695-292-11	PIN, CONNECTOR (POWER)		C43	1-163-038-00	CERAMIC CHIP 0.1MF	25V
<FUSE>				C44	1-163-038-00	CERAMIC CHIP 0.1MF	25V
F651 $\Delta$	1-576-232-21	FUSE (H.B.C.) 5.0A/250V		C45	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
	1-533-230-11	HOLDER, FUSE		C46	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
<SWITCH>				C48	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
S651 $\Delta$	1-571-433-12	SWITCH, PUSH (AC POWER)		C49	1-163-038-00	CERAMIC CHIP 0.1MF	25V
*****				C50	1-163-014-00	CERAMIC CHIP 0.0027MF	10% 50V
*A-1626-001-A Q BOARD, COMPLETE				C51	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
*****				C52	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
<CAPACITOR>				C53	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C54	1-124-907-11	ELECT 10MF	20% 50V
C3	1-124-927-11	ELECT 4.7MF	20% 50V	C55	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C4	1-164-299-11	CERAMIC CHIP 0.22MF	10% 25V	C56	1-163-113-00	CERAMIC CHIP 68PF	5% 50V
C5	1-162-568-11	CERAMIC CHIP 0.33MF	10% 16V	C57	1-163-237-11	CERAMIC CHIP 27PF	5% 50V
C6	1-124-907-11	ELECT 10MF	20% 50V	C58	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C7	1-163-077-91	CERAMIC CHIP 0.1MF	50V	C59	1-163-113-00	CERAMIC CHIP 68PF	5% 50V
C8	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C61	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C10	1-124-927-11	ELECT 4.7MF	20% 50V	C62	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C11	1-163-125-00	CERAMIC CHIP 220PF	5% 50V	C63	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V
C12	1-163-125-00	CERAMIC CHIP 220PF	5% 50V	C64	1-124-927-11	ELECT 4.7MF	20% 50V
C13	1-162-638-11	CERAMIC CHIP 1MF	16V	C65	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C14	1-124-927-11	ELECT 4.7MF	20% 50V	C66	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C15	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C67	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C17	1-163-989-11	CERAMIC CHIP 0.033MF	10% 25V	C68	1-124-907-11	ELECT 10MF	20% 50V
C18	1-163-989-11	CERAMIC CHIP 0.033MF	10% 25V	C69	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C19	1-163-097-00	CERAMIC CHIP 15PF	5% 50V	C70	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C20	1-163-125-00	CERAMIC CHIP 220PF	5% 50V	C71	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C21	1-163-125-00	CERAMIC CHIP 220PF	5% 50V	C72	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C22	1-163-081-00	CERAMIC CHIP 0.22MF	25V	C73	1-163-014-00	CERAMIC CHIP 0.0027MF	10% 50V
C23	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C74	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C24	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C75	1-163-131-00	CERAMIC CHIP 390PF	10% 50V
C25	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C85	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C26	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C86	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C27	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C87	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C28	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C88	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C29	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C89	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C30	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C91	1-124-907-11	ELECT 10MF	20% 50V
				C92	1-163-038-00	CERAMIC CHIP 0.1MF	25V
				C93	1-163-038-00	CERAMIC CHIP 0.1MF	25V
				C94	1-124-916-11	ELECT 22MF	20% 50V
				C95	1-163-038-00	CERAMIC CHIP 0.1MF	25V
				C96	1-124-916-11	ELECT 22MF	20% 50V
				C97	1-163-038-00	CERAMIC CHIP 0.1MF	25V
				C98	1-124-916-11	ELECT 22MF	20% 50V
				C99	1-163-038-00	CERAMIC CHIP 0.1MF	25V
				C1001	1-163-038-00	CERAMIC CHIP 0.1MF	25V
				C1004	1-163-038-00	CERAMIC CHIP 0.1MF	25V
				C1005	1-163-038-00	CERAMIC CHIP 0.1MF	25V
				C1006	1-163-038-00	CERAMIC CHIP 0.1MF	25V
				C1007	1-163-038-00	CERAMIC CHIP 0.1MF	25V
				C1008	1-163-038-00	CERAMIC CHIP 0.1MF	25V

Q

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C1009	1-163-038-00	CERAMIC CHIP 0.1MF	25V	<COIL>			
C1010	1-163-123-00	CERAMIC CHIP 180PF	5%	L1	1-410-437-11	INDUCTOR 330UH	
C1012	1-163-097-00	CERAMIC CHIP 15PF	5%	L2	1-410-437-11	INDUCTOR 330UH	
C1014	1-164-004-11	CERAMIC CHIP 0.1MF	10%	L4	1-408-409-00	INDUCTOR 10UH	
C1016	1-164-232-11	CERAMIC CHIP 0.01MF	10%	L5	1-426-942-21	TRANSFORMER, DETECTOR	
<CONNECTOR>				L6	1-426-941-21	TRANSFORMER, DETECTOR	
CN2145	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P		L7	1-426-803-21	TRANSFORMER, DETECTOR	
<DIODE>				L8	1-408-409-00	INDUCTOR 10UH	
D3	8-719-047-36	DIODE BBY40		L9	1-408-409-00	INDUCTOR 10UH	
D4	8-719-047-37	DIODE BAS16		L10	1-426-801-21	TRANSFORMER, DETECTOR	
D5	8-719-047-37	DIODE BAS16		L14	1-408-409-00	INDUCTOR 10UH	
D6	8-719-047-37	DIODE BAS16		L15	1-408-409-00	INDUCTOR 10UH	
D8	8-719-047-36	DIODE BBY40		L16	1-408-409-00	INDUCTOR 10UH	
D9	8-719-047-37	DIODE BAS16		<TRANSISTOR>			
D10	8-719-047-36	DIODE BBY40		Q1	8-729-216-22	TRANSISTOR 2SA1162-G	
D11	8-719-047-37	DIODE BAS16		Q2	8-729-920-74	TRANSISTOR 2SC2412K-QR	
D12	8-719-047-37	DIODE BAS16		Q8	8-729-025-25	TRANSISTOR BF550	
D13	8-719-105-91	DIODE RD5.6M-B2		Q9	8-729-920-74	TRANSISTOR 2SC2412K-QR	
D15	8-719-914-43	DIODE DAN202K		Q10	8-729-025-25	TRANSISTOR BF550	
D16	8-719-914-43	DIODE DAN202K		Q11	8-729-025-25	TRANSISTOR BF550	
<FILTER>				Q12	8-729-216-22	TRANSISTOR 2SA1162-G	
FL1	1-239-882-11	FILTER, LOW PASS		Q13	8-729-920-74	TRANSISTOR 2SC2412K-QR	
FL2	1-236-071-11	ENCAPSULATED COMPONENT		Q14	8-729-920-74	TRANSISTOR 2SC2412K-QR	
FL3	1-236-071-11	ENCAPSULATED COMPONENT		Q16	8-729-920-74	TRANSISTOR 2SC2412K-QR	
FL4	1-236-071-11	ENCAPSULATED COMPONENT		Q17	8-729-901-01	TRANSISTOR DTC144EK	
FL5	1-236-071-11	ENCAPSULATED COMPONENT		Q18	8-729-901-01	TRANSISTOR DTC144EK	
FL6	1-236-071-11	ENCAPSULATED COMPONENT		Q20	8-729-216-22	TRANSISTOR 2SA1162-G	
FL7	1-236-071-11	ENCAPSULATED COMPONENT		Q21	8-729-216-22	TRANSISTOR 2SA1162-G	
FL8	1-236-071-11	ENCAPSULATED COMPONENT		Q22	8-729-920-74	TRANSISTOR 2SC2412K-QR	
FL9	1-239-881-11	FILTER, LOW PASS		Q24	8-729-901-01	TRANSISTOR DTC144EK	
FL10	1-239-881-11	FILTER, LOW PASS		<JUMPER RESISTOR>			
<IC>				JR10	1-216-295-00	METAL GLAZE 0 5%	1/10W
IC1	8-759-257-59	IC TDA8755		JR11	1-216-295-00	METAL GLAZE 0 5%	1/10W
IC2	8-759-280-77	IC ZA2970-30DTR		JR12	1-216-295-00	METAL GLAZE 0 5%	1/10W
IC3	8-759-280-77	IC ZA2970-30DTR		JR13	1-216-295-00	METAL GLAZE 0 5%	1/10W
IC4	8-759-257-61	IC SAA4940H		JR14	1-216-295-00	METAL GLAZE 0 5%	1/10W
IC6	8-759-257-92	IC SAA4951		JR15	1-216-295-00	METAL GLAZE 0 5%	1/10W
IC7	8-759-280-00	IC P87C652FBA-AE2F01		JR16	1-216-295-00	METAL GLAZE 0 5%	1/10W
IC8	8-759-708-05	IC NJM78L05A		JR17	1-216-295-00	METAL GLAZE 0 5%	1/10W
IC9	8-759-267-23	IC MC74F08DR2		JR18	1-216-295-00	METAL GLAZE 0 5%	1/10W
IC10	8-759-267-23	IC MC74F08DR2		JR19	1-216-295-00	METAL GLAZE 0 5%	1/10W
IC11	8-759-708-05	IC NJM78L05A		JR20	1-216-295-00	METAL GLAZE 0 5%	1/10W
IC12	8-759-267-22	IC HEF4046BT		JR21	1-216-295-00	METAL GLAZE 0 5%	1/10W
IC13	8-759-234-77	IC TC4S66F		JR22	1-216-295-00	METAL GLAZE 0 5%	1/10W
IC14	8-759-708-05	IC NJM78L05A		JR23	1-216-295-00	METAL GLAZE 0 5%	1/10W
IC15	8-759-234-77	IC TC4S66F		JR24	1-216-295-00	METAL GLAZE 0 5%	1/10W
IC16	8-759-267-23	IC MC74F08DR2		JR25	1-216-295-00	METAL GLAZE 0 5%	1/10W
IC17	8-759-257-63	IC SAA7158		JR26	1-216-295-00	METAL GLAZE 0 5%	1/10W
IC18	8-759-708-05	IC NJM78L05A		JR27	1-216-295-00	METAL GLAZE 0 5%	1/10W
IC19	8-759-234-77	IC TC4S66F		JR28	1-216-295-00	METAL GLAZE 0 5%	1/10W
IC20	8-759-234-77	IC TC4S66F		JR30	1-216-295-00	METAL GLAZE 0 5%	1/10W
IC21	8-759-234-77	IC TC4S66F		JR31	1-216-295-00	METAL GLAZE 0 5%	1/10W
IC22	8-759-234-77	IC TC4S66F		JR32	1-216-295-00	METAL GLAZE 0 5%	1/10W
				JR33	1-216-295-00	METAL GLAZE 0 5%	1/10W
				JR34	1-216-295-00	METAL GLAZE 0 5%	1/10W
				JR35	1-216-295-00	METAL GLAZE 0 5%	1/10W
				JR36	1-216-295-00	METAL GLAZE 0 5%	1/10W

Q

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<RESISTOR>				R81	1-216-051-00	METAL GLAZE 1.2K 5%	1/10W
R1	1-216-025-00	METAL GLAZE 100 5%	1/10W	R83	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R2	1-216-035-00	METAL GLAZE 270 5%	1/10W	R84	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R3	1-216-025-00	METAL GLAZE 100 5%	1/10W	R85	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R4	1-216-029-00	METAL GLAZE 150 5%	1/10W	R86	1-216-041-00	METAL GLAZE 470 5%	1/10W
R5	1-216-295-00	METAL GLAZE 0 5%	1/10W	R87	1-216-043-00	METAL GLAZE 560 5%	1/10W
R6	1-216-033-00	METAL GLAZE 220 5%	1/10W	R88	1-216-001-00	METAL GLAZE 10 5%	1/10W
R7	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R89	1-216-025-00	METAL GLAZE 100 5%	1/10W
R8	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R90	1-216-039-00	METAL GLAZE 390 5%	1/10W
R12	1-216-045-00	METAL GLAZE 680 5%	1/10W	R91	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R15	1-216-045-00	METAL GLAZE 680 5%	1/10W	R92	1-216-039-00	METAL GLAZE 390 5%	1/10W
R16	1-216-053-00	METAL GLAZE 1.5K 5%	1/10W	R93	1-216-039-00	METAL GLAZE 390 5%	1/10W
R20	1-216-047-00	METAL GLAZE 820 5%	1/10W	R94	1-216-025-00	METAL GLAZE 100 5%	1/10W
R23	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R95	1-216-025-00	METAL GLAZE 100 5%	1/10W
R24	1-216-025-00	METAL GLAZE 100 5%	1/10W	R99	1-216-025-00	METAL GLAZE 100 5%	1/10W
R25	1-216-045-00	METAL GLAZE 680 5%	1/10W	R1001	1-216-025-00	METAL GLAZE 100 5%	1/10W
R26	1-216-025-00	METAL GLAZE 100 5%	1/10W	R1002	1-216-025-00	METAL GLAZE 100 5%	1/10W
R27	1-216-025-00	METAL GLAZE 100 5%	1/10W	R1003	1-216-025-00	METAL GLAZE 100 5%	1/10W
R28	1-216-001-00	METAL GLAZE 10 5%	1/10W	R1004	1-216-025-00	METAL GLAZE 100 5%	1/10W
R29	1-216-085-00	METAL GLAZE 33K 5%	1/10W	R1005	1-216-033-00	METAL GLAZE 220 5%	1/10W
R30	1-216-295-00	METAL GLAZE 0 5%	1/10W	R1006	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R33	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R1007	1-216-025-00	METAL GLAZE 100 5%	1/10W
R34	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R1008	1-216-025-00	METAL GLAZE 100 5%	1/10W
R35	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R1011	1-216-295-00	METAL GLAZE 0 5%	1/10W
R36	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R1012	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R37	1-216-001-00	METAL GLAZE 10 5%	1/10W	R1013	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R38	1-216-033-00	METAL GLAZE 220 5%	1/10W	R1014	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R40	1-216-053-00	METAL GLAZE 1.5K 5%	1/10W	R1015	1-216-047-00	METAL GLAZE 820 5%	1/10W
R44	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R1016	1-216-017-00	METAL GLAZE 47 5%	1/10W
R45	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R1017	1-216-025-00	METAL GLAZE 100 5%	1/10W
R46	1-216-085-00	METAL GLAZE 33K 5%	1/10W	R1018	1-216-017-00	METAL GLAZE 47 5%	1/10W
R47	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W	R1019	1-216-017-00	METAL GLAZE 47 5%	1/10W
R48	1-216-033-00	METAL GLAZE 220 5%	1/10W	R1020	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R49	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R1021	1-216-025-00	METAL GLAZE 100 5%	1/10W
R54	1-216-001-00	METAL GLAZE 10 5%	1/10W	R1022	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R55	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R1024	1-216-051-00	METAL GLAZE 1.2K 5%	1/10W
R56	1-216-033-00	METAL GLAZE 220 5%	1/10W	R1027	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R57	1-216-053-00	METAL GLAZE 1.5K 5%	1/10W	R1028	1-216-037-00	METAL GLAZE 330 5%	1/10W
R58	1-216-097-00	METAL GLAZE 100K 5%	1/10W	R1029	1-216-041-00	METAL GLAZE 470 5%	1/10W
R59	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W	R1030	1-216-025-00	METAL GLAZE 100 5%	1/10W
R60	1-216-033-00	METAL GLAZE 220 5%	1/10W	R1033	1-216-295-00	METAL GLAZE 0 5%	1/10W
R61	1-216-099-00	METAL GLAZE 120K 5%	1/10W	R1038	1-216-053-00	METAL GLAZE 1.5K 5%	1/10W
R62	1-216-071-00	METAL GLAZE 8.2K 5%	1/10W	R1039	1-216-045-00	METAL GLAZE 680 5%	1/10W
R63	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R1050	1-216-295-00	METAL GLAZE 0 5%	1/10W
R64	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R1052	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R65	1-216-001-00	METAL GLAZE 10 5%	1/10W	R1053	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R66	1-216-025-00	METAL GLAZE 100 5%	1/10W	R1054	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R67	1-216-053-00	METAL GLAZE 1.5K 5%	1/10W	R1055	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R68	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R1056	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R69	1-216-077-00	METAL GLAZE 15K 5%	1/10W	R1057	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R70	1-216-085-00	METAL GLAZE 33K 5%	1/10W	R1058	1-216-033-00	METAL GLAZE 220 5%	1/10W
R71	1-216-063-00	METAL GLAZE 3.9K 5%	1/10W	R1063	1-216-295-00	METAL GLAZE 0 5%	1/10W
R72	1-216-033-00	METAL GLAZE 220 5%	1/10W	R1064	1-216-295-00	METAL GLAZE 0 5%	1/10W
R73	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R1065	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
R74	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R1066	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W
R75	1-216-051-00	METAL GLAZE 1.2K 5%	1/10W	R1067	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W
R76	1-216-051-00	METAL GLAZE 1.2K 5%	1/10W	<CRYSTAL>			
R77	1-216-037-00	METAL GLAZE 330 5%	1/10W	X1	1-578-774-11	VIBRATOR, CRYSTAL	
R79	1-216-049-00	METAL GLAZE 1K 5%	1/10W	*****			
R80	1-216-047-00	METAL GLAZE 820 5%	1/10W				

**A2**

(KV-S2941A, S2941B, S2941D, S2941K)

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
*A-1630-214-A A2 BOARD, COMPLETE ***** (KV-S2941A, S2941B, S2941D, S2941K)				C2202	1-164-343-11	CERAMIC CHIP 0.056MF	10% 25V
<CAPACITOR>				C2203	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C1203	1-124-927-11	ELECT 4.7MF	20% 50V	C2204	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C1204	1-124-927-11	ELECT 4.7MF	20% 50V	C2205	1-124-907-11	ELECT 10MF	20% 50V
C1205	1-163-125-00	CERAMIC CHIP 220PF	5% 50V	C2206	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C1206	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C2207	1-137-613-11	FILM 0.0018MF	2% 100V
C1207	1-163-014-00	CERAMIC CHIP 0.0027MF	10% 50V	C2208	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C1208	1-163-019-00	CERAMIC CHIP 0.0068MF	10% 50V	C2209	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C1209	1-124-657-00	ELECT 10MF	20% 50V	C2210	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C1210	1-124-907-11	ELECT 10MF	20% 50V	C2211	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C1211	1-163-101-00	CERAMIC CHIP 22PF	5% 50V	C2212	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C1212	1-163-101-00	CERAMIC CHIP 22PF	5% 50V	C2213	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C1213	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C2214	1-124-910-11	ELECT 47MF	20% 50V
C1214	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V	C2215	1-124-910-11	ELECT 47MF	20% 50V
C1215	1-124-910-11	ELECT 47MF	20% 50V	C2216	1-163-019-00	CERAMIC CHIP 0.0068MF	10% 50V
C1216	1-124-927-11	ELECT 4.7MF	20% 50V	C2217	1-163-019-00	CERAMIC CHIP 0.0068MF	10% 50V
C1217	1-124-927-11	ELECT 4.7MF	20% 50V	C2218	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V
C1218	1-124-927-11	ELECT 4.7MF	20% 50V	C2219	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V
C1219	1-124-927-11	ELECT 4.7MF	20% 50V	C2220	1-124-925-11	ELECT 2.2MF	20% 50V
C1220	1-124-927-11	ELECT 4.7MF	20% 50V	C2221	1-124-925-11	ELECT 2.2MF	20% 50V
C1221	1-124-927-11	ELECT 4.7MF	20% 50V	C2222	1-164-005-11	CERAMIC CHIP 0.47MF	16V
C1222	1-163-014-00	CERAMIC CHIP 0.0027MF	10% 50V	C2223	1-164-005-11	CERAMIC CHIP 0.47MF	16V
C1223	1-163-014-00	CERAMIC CHIP 0.0027MF	10% 50V	C2224	1-164-005-11	CERAMIC CHIP 0.47MF	16V
C1224	1-124-927-11	ELECT 4.7MF	20% 50V	C2225	1-164-005-11	CERAMIC CHIP 0.47MF	16V
C1225	1-124-927-11	ELECT 4.7MF	20% 50V	C2226	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V
C1226	1-124-910-11	ELECT 47MF	20% 50V	C2227	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V
C1227	1-163-019-00	CERAMIC CHIP 0.0068MF	10% 50V	C2228	1-124-925-11	ELECT 2.2MF	20% 50V
C1228	1-163-019-00	CERAMIC CHIP 0.0068MF	10% 50V	C2229	1-124-925-11	ELECT 2.2MF	20% 50V
C1229	1-126-101-11	ELECT 100MF	20% 16V	C2230	1-136-177-00	FILM 1MF	5% 50V
C1230	1-126-101-11	ELECT 100MF	20% 16V	C2231	1-136-177-00	FILM 1MF	5% 50V
C1231	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C2232	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V
C1232	1-126-101-11	ELECT 100MF	20% 16V	C2233	1-163-007-11	CERAMIC CHIP 680PF	10% 50V
C1233	1-164-505-11	CERAMIC CHIP 2.2MF	16V	C2234	1-124-907-11	ELECT 10MF	20% 50V
C1234	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C2235	1-124-907-11	ELECT 10MF	20% 50V
C1235	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C2236	1-124-478-11	ELECT 100MF	20% 25V
C1236	1-124-927-11	ELECT 4.7MF	20% 50V	C2237	1-124-478-11	ELECT 100MF	20% 25V
C1237	1-124-927-11	ELECT 4.7MF	20% 50V	C2238	1-136-165-00	FILM 0.1MF	5% 50V
C1245	1-163-131-00	CERAMIC CHIP 390PF	10% 50V	C2239	1-136-165-00	FILM 0.1MF	5% 50V
C1246	1-163-131-00	CERAMIC CHIP 390PF	10% 50V	<CONNECTOR>			
C1247	1-163-131-00	CERAMIC CHIP 390PF	10% 50V	CN2201	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P	
C1251	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	<DIODE>			
C1252	1-163-010-11	CERAMIC CHIP 0.0012MF	10% 50V	D1201	8-719-914-43	DIODE DAN202K	
C1253	1-163-014-00	CERAMIC CHIP 0.0027MF	10% 50V	D2201	8-719-914-42	DIODE DA204K	
C1254	1-163-014-00	CERAMIC CHIP 0.0027MF	10% 50V	<IC>			
C1255	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	IC1201	8-759-145-58	IC UPC4558C	
C1256	1-163-022-00	CERAMIC CHIP 0.012MF	10% 50V	IC1202	8-759-145-58	IC UPC4558C	
C1257	1-163-986-00	CERAMIC CHIP 0.027MF	10% 25V	IC1203	8-759-145-58	IC UPC4558C	
C1258	1-163-986-00	CERAMIC CHIP 0.027MF	10% 25V	IC1204	8-759-503-59	IC YM7128	
C1259	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	IC1251	8-759-257-64	IC TDA7317	
C1260	1-164-348-11	CERAMIC CHIP 0.12MF	10% 25V	IC2201	8-759-267-97	IC TDA6812-5	
C1261	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	IC2202	8-759-502-21	IC TDA2822M	
C1262	1-163-010-11	CERAMIC CHIP 0.0012MF	10% 50V	<JUMPER RESISTOR>			
C1263	1-163-014-00	CERAMIC CHIP 0.0027MF	10% 50V	JR2201	1-216-295-00	METAL GLAZE 0 5% 1/10W	
C1264	1-163-014-00	CERAMIC CHIP 0.0027MF	10% 50V	JR2202	1-216-295-00	METAL GLAZE 0 5% 1/10W	
C1265	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	JR2205	1-216-295-00	METAL GLAZE 0 5% 1/10W	
C1266	1-163-022-00	CERAMIC CHIP 0.012MF	10% 50V	JR2206	1-216-295-00	METAL GLAZE 0 5% 1/10W	
C1267	1-163-986-00	CERAMIC CHIP 0.027MF	10% 25V	JR2207	1-216-296-91	METAL GLAZE 0 5% 1/8W	
C1268	1-163-986-00	CERAMIC CHIP 0.027MF	10% 25V				
C1269	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V				
C1270	1-164-348-11	CERAMIC CHIP 0.12MF	10% 25V				
C1271	1-124-916-11	ELECT 22MF	20% 50V				
C1272	1-124-910-11	ELECT 47MF	20% 50V				
C2201	1-164-343-11	CERAMIC CHIP 0.056MF	10% 25V				

A2

(KV-S2941A, S2941B, S2941D, S2941K)

A2

(KV-S2943E, S2942U)

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
JR2208	1-216-295-00	METAL GLAZE	0 5% 1/10W	R1240	1-216-025-00	METAL GLAZE	100 5% 1/10W
JR2209	1-216-295-00	METAL GLAZE	0 5% 1/10W	R1241	1-216-025-00	METAL GLAZE	100 5% 1/10W
JR2210	1-216-295-00	METAL GLAZE	0 5% 1/10W				
JR2211	1-216-295-00	METAL GLAZE	0 5% 1/10W	R1242	1-216-025-00	METAL GLAZE	100 5% 1/10W
JR2212	1-216-296-91	METAL GLAZE	0 5% 1/8W	R1243	1-216-025-00	METAL GLAZE	100 5% 1/10W
				R1245	1-216-073-00	METAL GLAZE	10K 5% 1/10W
JR2213	1-216-295-00	METAL GLAZE	0 5% 1/10W	R1246	1-216-073-00	METAL GLAZE	10K 5% 1/10W
JR2214	1-216-296-91	METAL GLAZE	0 5% 1/8W	R1247	1-216-073-00	METAL GLAZE	10K 5% 1/10W
JR2215	1-216-296-91	METAL GLAZE	0 5% 1/8W				
JR2216	1-216-295-00	METAL GLAZE	0 5% 1/10W	R1251	1-216-089-91	METAL GLAZE	47K 5% 1/10W
JR2217	1-216-296-91	METAL GLAZE	0 5% 1/8W	R1252	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
<COIL>				R1253	1-216-089-91	METAL GLAZE	47K 5% 1/10W
L1201	1-408-421-00	INDUCTOR	100UH	R1254	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
L1202	1-408-421-00	INDUCTOR	100UH	R1255	1-216-089-91	METAL GLAZE	47K 5% 1/10W
L1251	1-408-421-00	INDUCTOR	100UH				
L2201	1-407-500-00	INDUCTOR	4.7MMH	R1256	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
<TRANSISTOR>				R1257	1-216-089-91	METAL GLAZE	47K 5% 1/10W
Q1201	8-729-920-74	TRANSISTOR	2SC2412K-QR	R1258	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
Q1202	8-729-920-74	TRANSISTOR	2SC2412K-QR	R1259	1-216-089-91	METAL GLAZE	47K 5% 1/10W
Q1251	8-729-901-01	TRANSISTOR	DTC144EK	R1260	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
Q1252	8-729-901-01	TRANSISTOR	DTC144EK				
<RESISTOR>				R1261	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R1201	1-216-103-91	METAL GLAZE	180K 5% 1/10W	R1262	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1202	1-216-107-00	METAL GLAZE	270K 5% 1/10W	R1263	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R1203	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1264	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1204	1-216-083-00	METAL GLAZE	27K 5% 1/10W	R1265	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R1205	1-216-103-91	METAL GLAZE	180K 5% 1/10W				
R1206	1-216-107-00	METAL GLAZE	270K 5% 1/10W	R1266	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1207	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1267	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R1208	1-216-083-00	METAL GLAZE	27K 5% 1/10W	R1268	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1209	1-216-083-00	METAL GLAZE	27K 5% 1/10W	R1269	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R1210	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1270	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1211	1-216-025-00	METAL GLAZE	100 5% 1/10W	R1271	1-216-025-00	METAL GLAZE	100 5% 1/10W
R1212	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1272	1-216-025-00	METAL GLAZE	100 5% 1/10W
R1213	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1290	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R1214	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R2201	1-216-655-11	METAL CHIP	1.5K 0.50% 1/10W
R1215	1-216-089-91	METAL GLAZE	47K 5% 1/10W	R2202	1-216-657-11	METAL CHIP	1.8K 0.50% 1/10W
R1216	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R2203	1-216-655-11	METAL CHIP	1.5K 0.50% 1/10W
R1217	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R2204	1-216-657-11	METAL CHIP	1.8K 0.50% 1/10W
R1218	1-216-121-00	METAL GLAZE	1M 5% 1/10W	R2205	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R1219	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R2206	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R1220	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R2207	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R1221	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R2208	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R1222	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R2209	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R1223	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R2210	1-216-025-00	METAL GLAZE	100 5% 1/10W
R1224	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R2211	1-216-025-00	METAL GLAZE	100 5% 1/10W
R1225	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R2216	1-216-295-00	METAL GLAZE	0 5% 1/10W
R1226	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R2217	1-216-295-00	METAL GLAZE	0 5% 1/10W
R1227	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R2218	1-249-389-11	CARBON	4.7 5% 1/4W F
R1228	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R2219	1-249-389-11	CARBON	4.7 5% 1/4W F
R1229	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R2220	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1230	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R2221	1-216-091-00	METAL GLAZE	56K 5% 1/10W
R1231	1-216-073-00	METAL GLAZE	10K 5% 1/10W	<CRYSTAL>			
R1232	1-216-073-00	METAL GLAZE	10K 5% 1/10W	X1201	1-567-307-11	OSCILLATOR, CRYSTAL	
R1233	1-216-049-00	METAL GLAZE	1K 5% 1/10W	*****			
R1234	1-216-049-00	METAL GLAZE	1K 5% 1/10W	*A-1630-215-A	A2 BOARD, COMPLETE (KV-S2943E)		
R1235	1-216-073-00	METAL GLAZE	10K 5% 1/10W	*****			
				*A-1630-216-A	A2 BOARD, COMPLETE (KV-S2942U)		
				*****			
				<FILTER>			
R1236	1-216-073-00	METAL GLAZE	10K 5% 1/10W	BP1101	1-236-238-11	FILTER, BAND PASS (KV-S2942U)	
R1237	1-216-049-00	METAL GLAZE	1K 5% 1/10W	BP1101	1-239-047-11	FILTER, BAND PASS (KV-S2943E)	
R1238	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W				

**A2**

(KV-S2943E, S2942U)

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<CAPACITOR>				C1204	1-124-927-11	ELECT 4.7MF	20% 50V
C1101	1-126-101-11	ELECT 100MF	20% 16V	C1205	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
C1102	1-126-101-11	ELECT 100MF	20% 16V	C1206	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1103	1-163-077-91	CERAMIC CHIP 0.1MF	50V	C1207	1-163-014-00	CERAMIC CHIP 0.0027MF	10% 50V
C1104	1-163-077-00	CERAMIC CHIP 0.1MF	10% 25V	C1208	1-163-019-00	CERAMIC CHIP 0.0068MF	10% 50V
C1105	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V	C1209	1-124-657-00	ELECT 10MF	20% 50V
C1106	1-163-383-11	CERAMIC CHIP 180PF	5% 50V	C1210	1-124-907-11	ELECT 10MF	20% 50V
C1107	1-163-205-00	CERAMIC CHIP 0.001MF	10% 50V	C1211	1-163-101-00	CERAMIC CHIP 22PF	5% 50V
C1108	1-163-059-00	CERAMIC CHIP 0.01MF	50V	C1212	1-163-101-00	CERAMIC CHIP 22PF	5% 50V
C1109	1-163-033-00	CERAMIC CHIP 0.022MF	50V	C1213	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1110	1-164-336-11	CERAMIC CHIP 0.33MF	25V	C1214	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V
C1111	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C1215	1-124-910-11	ELECT 47MF	20% 50V
C1112	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V	C1216	1-124-927-11	ELECT 4.7MF	20% 50V
C1113	1-124-477-11	ELECT 47MF	20% 16V	C1217	1-124-927-11	ELECT 4.7MF	20% 50V
C1114	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C1218	1-124-927-11	ELECT 4.7MF	20% 50V
C1115	1-124-477-11	ELECT 47MF	20% 16V	C1219	1-124-927-11	ELECT 4.7MF	20% 50V
C1116	1-106-228-00	MYLAR 0.22MF	10% 100V	C1220	1-124-927-11	ELECT 4.7MF	20% 50V
C1117	1-164-222-11	CERAMIC CHIP 0.22MF	25V	C1221	1-124-927-11	ELECT 4.7MF	20% 50V
C1118	1-163-113-00	CERAMIC CHIP 68PF	5% 50V	C1222	1-163-014-00	CERAMIC CHIP 0.0027MF	10% 50V
C1119	1-163-129-00	CERAMIC CHIP 330PF	5% 50V	C1223	1-163-014-00	CERAMIC CHIP 0.0027MF	10% 50V
C1120	1-163-129-00	CERAMIC CHIP 330PF	5% 50V	C1224	1-124-927-11	ELECT 4.7MF	20% 50V
C1121	1-163-113-00	CERAMIC CHIP 68PF	5% 50V	C1225	1-124-927-11	ELECT 4.7MF	20% 50V
C1122	1-163-081-00	CERAMIC CHIP 0.22MF	25V	C1226	1-124-910-11	ELECT 47MF	20% 50V
C1123	1-106-228-00	MYLAR 0.22MF	10% 100V	C1227	1-163-019-00	CERAMIC CHIP 0.0068MF	10% 50V
C1124	1-124-477-11	ELECT 47MF	20% 16V	C1228	1-163-019-00	CERAMIC CHIP 0.0068MF	10% 50V
C1125	1-124-477-11	ELECT 47MF	20% 16V	C1230	1-126-101-11	ELECT 100MF	20% 16V
C1126	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1231	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C1127	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C1232	1-126-101-11	ELECT 100MF	20% 16V
C1128	1-124-477-11	ELECT 47MF	20% 16V	C1233	1-164-505-11	CERAMIC CHIP 2.2MF	16V
C1129	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C1234	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C1130	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C1235	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C1131	1-163-059-00	CERAMIC CHIP 0.01MF	50V	C1236	1-124-927-11	ELECT 4.7MF	20% 50V
C1132	1-163-077-91	CERAMIC CHIP 0.1MF	50V	C1237	1-124-927-11	ELECT 4.7MF	20% 50V
C1133	1-124-907-11	ELECT 10MF	20% 50V	C1245	1-163-131-00	CERAMIC CHIP 390PF	10% 50V
C1134	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C1246	1-163-131-00	CERAMIC CHIP 390PF	10% 50V
C1135	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C1247	1-163-131-00	CERAMIC CHIP 390PF	10% 50V
C1136	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C1251	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C1137	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C1252	1-163-010-11	CERAMIC CHIP 0.0012MF	10% 50V
C1138	1-163-105-00	CERAMIC CHIP 33PF	5% 50V	C1253	1-163-014-00	CERAMIC CHIP 0.0027MF	10% 50V
C1139	1-163-105-00	CERAMIC CHIP 33PF	5% 50V	C1254	1-163-014-00	CERAMIC CHIP 0.0027MF	10% 50V
C1140	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C1255	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C1141	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	C1256	1-163-022-00	CERAMIC CHIP 0.012MF	10% 50V
C1142	1-163-057-00	CERAMIC CHIP 0.0068MF	50V	C1257	1-163-986-00	CERAMIC CHIP 0.027MF	10% 25V
C1143	1-163-003-11	CERAMIC CHIP 330PF	10% 50V	C1258	1-163-986-00	CERAMIC CHIP 0.027MF	10% 25V
C1144	1-163-121-00	CERAMIC CHIP 150PF	5% 50V	C1259	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1145	1-163-121-00	CERAMIC CHIP 150PF	5% 50V	C1260	1-164-348-11	CERAMIC CHIP 0.12MF	10% 25V
C1146	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C1261	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C1147	1-124-477-11	ELECT 47MF	20% 16V	C1262	1-163-010-11	CERAMIC CHIP 0.0012MF	10% 50V
C1148	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V	C1263	1-163-014-00	CERAMIC CHIP 0.0027MF	10% 50V
C1149	1-124-477-11	ELECT 47MF	20% 16V	C1264	1-163-014-00	CERAMIC CHIP 0.0027MF	10% 50V
C1150	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C1265	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C1151	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C1266	1-163-022-00	CERAMIC CHIP 0.012MF	10% 50V
C1152	1-124-477-11	ELECT 47MF	20% 16V	C1267	1-163-986-00	CERAMIC CHIP 0.027MF	10% 25V
C1153	1-163-087-00	CERAMIC CHIP 4PF	0.25PF 50V	C1268	1-163-986-00	CERAMIC CHIP 0.027MF	10% 25V
C1154	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C1269	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1155	1-124-477-11	ELECT 47MF	20% 16V	C1270	1-164-348-11	CERAMIC CHIP 0.12MF	10% 25V
C1156	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C1271	1-124-916-11	ELECT 22MF	20% 50V
C1157	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C1272	1-124-910-11	ELECT 47MF	20% 50V
C1158	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C2201	1-164-343-11	CERAMIC CHIP 0.056MF	10% 25V
C1159	1-163-243-11	CERAMIC CHIP 47PF	5% 50V	C2202	1-164-343-11	CERAMIC CHIP 0.056MF	10% 25V
(KV-S2942U)				C2203	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C1203	1-124-927-11	ELECT 4.7MF	20% 50V	C2204	1-164-005-11	CERAMIC CHIP 0.47MF	25V
				C2205	1-124-907-11	ELECT 10MF	20% 50V
				C2206	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V

**A2**

(KV-S2943E, S2942U)

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C2207	1-137-613-11	FILM 0.0018MF	2%	100V	IC1204	8-759-503-59	IC YM7128
C2208	1-164-005-11	CERAMIC CHIP 0.47MF		25V	IC1251	8-759-257-64	IC TDA7317
C2209	1-164-005-11	CERAMIC CHIP 0.47MF		25V	IC2201	8-759-267-97	IC TDA6812-5
C2210	1-164-005-11	CERAMIC CHIP 0.47MF		25V	IC2202	8-759-502-21	IC TDA2822M
C2211	1-164-005-11	CERAMIC CHIP 0.47MF		25V			
C2212	1-164-005-11	CERAMIC CHIP 0.47MF		25V			
C2213	1-164-005-11	CERAMIC CHIP 0.47MF		25V			
C2214	1-124-910-11	ELECT 47MF	20%	50V			
C2215	1-124-910-11	ELECT 47MF	20%	50V			
C2216	1-163-019-00	CERAMIC CHIP 0.0068MF	10%	50V			
C2217	1-163-019-00	CERAMIC CHIP 0.0068MF	10%	50V			
C2218	1-163-809-11	CERAMIC CHIP 0.047MF	10%	25V			
C2219	1-163-809-11	CERAMIC CHIP 0.047MF	10%	25V			
C2220	1-124-925-11	ELECT 2.2MF	20%	50V			
C2221	1-124-925-11	ELECT 2.2MF	20%	50V			
C2222	1-164-005-11	CERAMIC CHIP 0.47MF		16V			
C2223	1-164-005-11	CERAMIC CHIP 0.47MF		16V			
C2224	1-164-005-11	CERAMIC CHIP 0.47MF		16V			
C2225	1-164-005-11	CERAMIC CHIP 0.47MF		16V			
C2226	1-163-011-11	CERAMIC CHIP 0.0015MF	10%	50V			
C2227	1-163-011-11	CERAMIC CHIP 0.0015MF	10%	50V			
C2228	1-124-925-11	ELECT 2.2MF	20%	50V			
C2229	1-124-925-11	ELECT 2.2MF	20%	50V			
C2230	1-136-177-00	FILM 1MF	5%	50V			
C2231	1-136-177-00	FILM 1MF	5%	50V			
C2232	1-164-182-11	CERAMIC CHIP 0.0033MF	10%	50V			
C2233	1-163-007-11	CERAMIC CHIP 680PF	10%	50V			
C2234	1-124-907-11	ELECT 10MF	20%	50V			
C2235	1-124-907-11	ELECT 10MF	20%	50V			
C2236	1-124-478-11	ELECT 100MF	20%	25V			
C2237	1-124-478-11	ELECT 100MF	20%	25V			
C2238	1-136-165-00	FILM 0.1MF	5%	50V			
C2239	1-136-165-00	FILM 0.1MF	5%	50V			
<TRAP CERAMIC>				<TRANSISTOR>			
CF1101	1-409-333-00	TRAP, CERAMIC (6.0MHZ)	(KV-S2942U)	Q1101	8-729-920-74	TRANSISTOR 2SC2412K-QR	
CF1102	1-404-134-00	TRAP, CERAMIC (5.5MHZ)	(KV-S2943E)	Q1102	8-729-920-74	TRANSISTOR 2SC2412K-QR	
<CONNECTOR>				Q1103	8-729-920-74	TRANSISTOR 2SC2412K-QR	
CN2201	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P		Q1104	8-729-920-74	TRANSISTOR 2SC2412K-QR	
<DIODE>				Q1105	8-729-920-74	TRANSISTOR 2SC2412K-QR	
D1101	8-719-914-43	DIODE DAN202K		Q1106	8-729-920-74	TRANSISTOR 2SC2412K-QR	
D1102	8-719-027-70	DIODE 1SV217-TPH3		Q1107	8-729-920-74	TRANSISTOR 2SC2412K-QR	
D1103	8-719-820-71	DIODE 1SV214		Q1108	8-729-920-74	TRANSISTOR 2SC2412K-QR	
D1201	8-719-914-43	DIODE DAN202K		Q1201	8-729-920-74	TRANSISTOR 2SC2412K-QR	
D2201	8-719-914-42	DIODE DA204K		Q1202	8-729-920-74	TRANSISTOR 2SC2412K-QR	
<FERRITE BEAD>				Q1251	8-729-901-01	TRANSISTOR DTC144EK	
FB1101	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH		Q1252	8-729-901-01	TRANSISTOR DTC144EK	
FB1104	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH					
FB1105	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH					
<IC>				<RESISTOR>			
IC1101	8-759-511-88	IC TDA8732		R1101	1-216-039-00	METAL GLAZE 390 5%	1/10W
IC1102	8-759-184-28	IC SAA7282-ZP		R1102	1-216-049-00	METAL GLAZE 1K 5%	1/10W
IC1201	8-759-145-58	IC UPC4558C		R1103	1-216-049-00	METAL GLAZE 1K 5%	1/10W
IC1202	8-759-145-58	IC UPC4558C		R1104	1-216-041-00	METAL GLAZE 470 5%	1/10W
IC1203	8-759-145-58	IC UPC4558C		R1105	1-216-005-00	METAL GLAZE 15 5%	1/10W
				R1106	1-216-036-00	METAL GLAZE 300 5%	1/10W
				R1107	1-216-042-00	METAL GLAZE 510 5%	1/10W
				R1108	1-216-063-00	METAL GLAZE 3.9K 5%	1/10W
				R1109	1-216-053-00	METAL GLAZE 1.5K 5%	1/10W
				R1110	1-216-047-00	METAL GLAZE 820 5%	1/10W
				R1111	1-216-041-00	METAL GLAZE 470 5%	1/10W
				R1112	1-216-051-00	METAL GLAZE 1.2K 5%	1/10W
				R1113	1-216-001-00	METAL GLAZE 10 5%	1/10W

A2

(KV-S2943E, S2942U)

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R1114	1-216-105-00	METAL GLAZE	220K 5% 1/10W	R1224	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1115	1-216-121-00	METAL GLAZE	1M 5% 1/10W	R1225	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R1116	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1226	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R1117	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1227	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R1118	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1228	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1119	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1229	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1120	1-216-083-00	METAL GLAZE	27K 5% 1/10W	R1230	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1121	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1231	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1122	1-216-158-00	METAL GLAZE	22 5% 1/8W	R1232	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1123	1-216-158-00	METAL GLAZE	22 5% 1/8W	R1233	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R1124	1-216-089-91	METAL GLAZE	47K 5% 1/10W	R1234	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R1125	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1235	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1126	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	R1236	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1127	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1237	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R1128	1-216-089-91	METAL GLAZE	47K 5% 1/10W	R1238	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1129	1-216-089-91	METAL GLAZE	47K 5% 1/10W	R1240	1-216-025-00	METAL GLAZE	100 5% 1/10W
R1130	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1241	1-216-025-00	METAL GLAZE	100 5% 1/10W
R1131	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	R1242	1-216-025-00	METAL GLAZE	100 5% 1/10W
R1132	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1243	1-216-025-00	METAL GLAZE	100 5% 1/10W
R1133	1-216-089-91	METAL GLAZE	47K 5% 1/10W	R1245	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1134	1-216-212-00	METAL GLAZE	3.9K 5% 1/8W	R1246	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1135	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1247	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1136	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1251	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R1137	1-216-095-00	METAL GLAZE	82K 5% 1/10W	R1252	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1138	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1253	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R1139	1-216-005-00	METAL GLAZE	15 5% 1/10W	R1254	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1140	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R1255	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R1141	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R1256	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1142	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1257	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R1143	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1258	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1144	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1259	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R1145	1-216-001-00	METAL GLAZE	10 5% 1/10W	R1260	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1146	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1261	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R1147	1-216-045-00	METAL GLAZE	680 5% 1/10W	R1262	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1148	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1263	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R1149	1-216-001-00	METAL GLAZE	10 5% 1/10W	R1264	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1150	1-216-045-00	METAL GLAZE	680 5% 1/10W	R1265	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R1151	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1266	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1152	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1267	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R1153	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1268	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1154	1-216-041-00	METAL GLAZE	470 5% 1/10W	R1269	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R1201	1-216-103-91	METAL GLAZE	180K 5% 1/10W	R1270	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1202	1-216-107-00	METAL GLAZE	270K 5% 1/10W	R1271	1-216-025-00	METAL GLAZE	100 5% 1/10W
R1203	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1272	1-216-025-00	METAL GLAZE	100 5% 1/10W
R1204	1-216-083-00	METAL GLAZE	27K 5% 1/10W	R1290	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R1205	1-216-103-91	METAL GLAZE	180K 5% 1/10W	R2201	1-216-655-11	METAL CHIP	1.5K 0.50% 1/10W
R1206	1-216-107-00	METAL GLAZE	270K 5% 1/10W	R2202	1-216-657-11	METAL CHIP	1.8K 0.50% 1/10W
R1207	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R2203	1-216-655-11	METAL CHIP	1.5K 0.50% 1/10W
R1208	1-216-083-00	METAL GLAZE	27K 5% 1/10W	R2204	1-216-657-11	METAL CHIP	1.8K 0.50% 1/10W
R1209	1-216-083-00	METAL GLAZE	27K 5% 1/10W	R2205	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R1210	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R2206	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R1211	1-216-025-00	METAL GLAZE	100 5% 1/10W	R2207	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R1212	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R2208	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R1213	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R2209	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R1214	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R2210	1-216-025-00	METAL GLAZE	100 5% 1/10W
R1215	1-216-089-91	METAL GLAZE	47K 5% 1/10W	R2211	1-216-025-00	METAL GLAZE	100 5% 1/10W
R1216	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R2216	1-216-295-00	METAL GLAZE	0 5% 1/10W
R1217	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R2217	1-216-295-00	METAL GLAZE	0 5% 1/10W
R1218	1-216-121-00	METAL GLAZE	1M 5% 1/10W	R2218	1-249-389-11	CARBON	4.7 5% 1/4W F
R1219	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R2219	1-249-389-11	CARBON	4.7 5% 1/4W F
R1220	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R2220	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1221	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R2221	1-216-091-00	METAL GLAZE	56K 5% 1/10W
R1222	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
R1223	1-216-073-00	METAL GLAZE	10K 5% 1/10W				

A2

(KV-S2943E, S2942U)

A

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<CRYSTAL>							
X1101	1-579-689-21	VIBRATOR, CRYSTAL		C1362	1-124-927-11	ELECT 4.7MF	20% 50V
X1102	1-579-282-21	VIBRATOR, CRYSTAL (KV-S2943E)		C1363	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
X1102	1-579-283-11	VIBRATOR, CRYSTAL (KV-S2942U)		C1364	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V
X1201	1-567-307-11	OSCILLATOR, CRYSTAL		C1365	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
*****				C1366	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V
*A-1632-172-A	A BOARD, COMPLETE ***** (KV-S2941A,S2941D,S2943E,S2941K)			C1368	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
*A-1632-187-A	A BOARD, COMPLETE (KV-S2941B) *****			C1370	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V
*A-1632-188-A	A BOARD, COMPLETE (KV-S2942U) *****			C1373	1-164-336-11	CERAMIC CHIP 0.33MF	20% 25V
<CAPACITOR>				C1374	1-124-903-11	ELECT 1MF	20% 50V
C071	1-126-803-11	ELECT 47MF	20% 10V	C1375	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C072	1-124-120-11	ELECT 220MF	20% 16V	C1376	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C073	1-126-101-11	ELECT 100MF	20% 16V	C1378	1-163-007-11	CERAMIC CHIP 680PF	10% 50V
C074	1-163-001-11	CERAMIC CHIP 220PF	10% 50V	C1379	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C103	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C1380	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C104	1-124-910-11	ELECT 47MF	20% 50V	C1381	1-124-903-11	ELECT 1MF	20% 50V
C105	1-124-916-11	ELECT 22MF	20% 50V	C1382	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C106	1-124-927-11	ELECT 4.7MF	20% 50V	C1383	1-163-105-00	CERAMIC CHIP 33PF	5% 50V
C110	1-164-005-11	CERAMIC CHIP 0.47MF	25V	C1384	1-163-037-11	CERAMIC CHIP 0.022MF	10% 25V
C120	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C1385	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C208	1-164-005-11	CERAMIC CHIP 0.47MF	25V	C1386	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C217	1-124-925-11	ELECT 2.2MF	20% 50V	C1387	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C218	1-124-925-11	ELECT 2.2MF	20% 50V	C1390	1-163-001-11	CERAMIC CHIP 220PF	10% 50V
C231	1-164-346-11	CERAMIC CHIP 1MF	16V	<CONNECTOR>			
C232	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	CN105	*1-568-882-51	PIN, CONNECTOR 7P	
C233	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	CN0001	*1-564-520-11	PLUG, CONNECTOR 5P	
C234	1-163-005-11	CERAMIC CHIP 470PF	10% 50V	CN0101	1-695-298-11	CONNECTOR, BOARD TO BOARD 40P	
C235	1-130-772-00	FILM 0.22MF	5% 63V	CN0102	1-695-298-11	CONNECTOR, BOARD TO BOARD 40P	
C236	1-124-618-11	ELECT 2200MF	20% 35V	CN0103	*1-564-513-11	PLUG, CONNECTOR 10P	
C237	1-124-618-11	ELECT 2200MF	20% 35V	CN0104	1-564-511-11	PLUG, CONNECTOR 8P	
C238	1-163-005-11	CERAMIC CHIP 470PF	10% 50V	CN0106	*1-568-880-51	PIN, CONNECTOR 5P (KV-S2941B)	
C239	1-130-772-00	FILM 0.22MF	5% 63V	CN0107	*1-568-879-11	PIN, CONNECTOR 4P	
C240	1-124-916-11	ELECT 22MF	20% 50V	CN0109	1-695-298-11	CONNECTOR, BOARD TO BOARD 40P	
C241	1-124-916-11	ELECT 22MF	20% 50V	CN0110	*1-568-882-51	PIN, CONNECTOR 7P	
C242	1-124-903-11	ELECT 1MF	20% 50V	CN0113	1-695-298-11	CONNECTOR, BOARD TO BOARD 40P	
C244	1-164-222-11	CERAMIC CHIP 0.22MF	25V	CN0119	*1-568-880-51	PIN, CONNECTOR 5P	
C248	1-163-185-00	CERAMIC CHIP 150PF	5% 50V	CN0145	1-695-298-11	CONNECTOR, BOARD TO BOARD 40P	
C249	1-163-129-00	CERAMIC CHIP 330PF	5% 50V	CN0146	*1-564-514-11	PLUG, CONNECTOR 11P	
C250	1-124-910-11	ELECT 47MF	20% 50V	CN0150	*1-568-881-51	PIN, CONNECTOR 6P	
C280	1-126-320-11	ELECT 10MF	20% 16V	CN0151	*1-568-879-11	PIN, CONNECTOR 4P	
C290	1-162-638-11	CERAMIC CHIP 1MF	16V	<DIODE>			
C682	1-126-101-11	ELECT 100MF	20% 16V	D068	8-719-914-44	DIODE DAP202K	
C683	1-124-478-11	ELECT 100MF	20% 25V	D069	8-719-914-44	DIODE DAP202K	
C684	1-126-101-11	ELECT 100MF	20% 16V	D071	8-719-109-89	DIODE RD5.6ESB2	
C685	1-124-478-11	ELECT 100MF	20% 25V	D073	8-719-109-89	DIODE RD5.6ESB2	
C1351	1-164-346-11	CERAMIC CHIP 1MF	16V	D075	8-719-914-43	DIODE DAN202K	
C1352	1-164-346-11	CERAMIC CHIP 1MF	16V	D077	8-719-914-43	DIODE DAN202K	
C1353	1-164-346-11	CERAMIC CHIP 1MF	16V	D078	8-719-109-89	DIODE RD5.6ESB2	
C1354	1-164-346-11	CERAMIC CHIP 1MF	16V	D079	8-719-109-89	DIODE RD5.6ESB2	
C1355	1-163-001-11	CERAMIC CHIP 220PF	10% 50V	D101	8-719-982-27	DIODE MTZJ-33C	
C1356	1-163-038-00	CERAMIC CHIP 0.1MF	25V	D206	8-719-914-43	DIODE DAN202K	
C1357	1-124-120-11	ELECT 220MF	20% 16V	D207	8-719-901-33	DIODE 1SS133	
C1358	1-163-037-11	CERAMIC CHIP 0.022MF	10% 25V	D208	8-719-901-33	DIODE 1SS133	
C1359	1-163-037-11	CERAMIC CHIP 0.022MF	10% 25V	D209	8-719-901-33	DIODE 1SS133	
C1360	1-164-005-11	CERAMIC CHIP 0.47MF	25V	D210	8-719-901-33	DIODE 1SS133	
				D211	8-719-901-33	DIODE 1SS133	
				D212	8-719-901-33	DIODE 1SS133	
				D213	8-719-914-43	DIODE DAN202K	
				D215	8-719-914-42	DIODE DA204K	
				D216	8-719-914-42	DIODE DA204K	

A

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
D681	8-719-914-44	DIODE DAP202K				<COIL>	
D682	8-719-110-03	DIODE RD7.5ESB2		L101	1-412-546-41	INDUCTOR 560UH	
D683	8-719-109-89	DIODE RD5.6ESB2		L1351	1-216-295-00	METAL GLAZE 0 5% 1/10W	
D1351	8-719-901-33	DIODE 1SS133		L1352	1-216-295-00	METAL GLAZE 0 5% 1/10W	
D1352	8-719-914-43	DIODE DAN202K		L1353	1-408-403-00	INDUCTOR 3.3UH	
D1353	8-719-914-43	DIODE DAN202K		L1354	1-408-403-00	INDUCTOR 3.3UH	
D1354	8-719-914-43	DIODE DAN202K					
D1355	8-719-914-43	DIODE DAN202K		L1355	1-408-403-00	INDUCTOR 3.3UH	
D1356	8-719-914-43	DIODE DAN202K				<TRANSISTOR>	
D1357	8-719-914-43	DIODE DAN202K		Q071	8-729-901-00	TRANSISTOR DTC124EK	
D1358	8-719-914-43	DIODE DAN202K		Q101	8-729-216-22	TRANSISTOR 2SA1162-G	
D1359	8-719-914-43	DIODE DAN202K		Q102	8-729-901-00	TRANSISTOR DTC124EK	
		<IC>		Q103	8-729-901-00	TRANSISTOR DTC124EK	
IC072	8-759-184-27	IC ST24C16CB1		Q105	8-729-216-22	TRANSISTOR 2SA1162-G	
IC251	8-759-072-99	IC TDA2052		Q107	8-729-920-74	TRANSISTOR 2SC2412K-QR	
	4-201-023-01	SPACER, INSULATING; IC251		Q108	8-729-920-74	TRANSISTOR 2SC2412K-QR	
	4-202-373-01	SPRING, IC; IC251		Q201	8-729-920-74	TRANSISTOR 2SC2412K-QR	
	4-812-134-00	RIVET NYLON, 3.5; IC251		Q202	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC261	8-759-072-99	IC TDA2052		Q203	8-729-920-74	TRANSISTOR 2SC2412K-QR	
	4-201-023-01	SPACER, INSULATING; IC261		Q204	8-729-216-22	TRANSISTOR 2SA1162-G	
	4-202-373-01	SPRING, IC; IC261		Q205	8-729-216-22	TRANSISTOR 2SA1162-G	
	4-812-134-00	RIVET NYLON, 3.5; IC261		Q206	8-729-216-22	TRANSISTOR 2SA1162-G	
IC681	8-749-921-21	IC SI-3120C		Q207	8-729-920-74	TRANSISTOR 2SC2412K-QR	
	4-382-854-11	SCREW (M3X10), P, SW (+); IC681		Q209	8-729-216-22	TRANSISTOR 2SA1162-G	
IC682	8-749-920-43	IC SI-3050CA		Q210	8-729-920-74	TRANSISTOR 2SC2412K-QR	
	4-382-854-11	SCREW (M3X10), P, SW (+); IC682		Q681	8-729-140-96	TRANSISTOR 2SD774-34	
IC684	8-759-701-59	IC NJM78M09FA		Q682	8-729-920-74	TRANSISTOR 2SC2412K-QR	
	*4-368-683-21	SPRING, TRANSISTOR; IC684		Q683	8-729-216-22	TRANSISTOR 2SA1162-G	
IC685	8-759-510-52	IC TEA7605		Q1351	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC1351	8-759-275-36	IC TDA4780		Q1358	8-729-216-22	TRANSISTOR 2SA1162-G	
IC1352	8-759-007-21	IC UPD4053BC		Q1359	8-729-931-02	TRANSISTOR 2SC2413K-Q	
IC1353	8-759-145-58	IC UPC4558C		Q1360	8-729-216-22	TRANSISTOR 2SA1162-G	
IC1354	8-759-103-93	IC UPC393		Q1361	8-729-216-22	TRANSISTOR 2SA1162-G	
		<IF BLOCK>		Q1362	8-729-900-53	TRANSISTOR DTC114EK	
IFB101	1-466-733-11	IF BLOCK (IFH-389)		Q1363	8-729-920-74	TRANSISTOR 2SC2412K-QR	
		(KV-S2941A, S2941D, S2943E, S2941K)				<RESISTOR>	
IFB101	1-466-734-11	IF BLOCK (IFH-395) (KV-S2942U)		R071	1-249-413-11	CARBON 470 5% 1/4W	
IFB101	1-466-735-11	IF BLOCK (IFH-389F) (KV-S2941B)		R072	1-216-033-00	METAL GLAZE 220 5% 1/10W	
		<JUMPER RESISTOR>		R073	1-216-033-00	METAL GLAZE 220 5% 1/10W	
JR110	1-216-295-00	METAL GLAZE 0 5% 1/10W		R074	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
JR111	1-216-295-00	METAL GLAZE 0 5% 1/10W		R076	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
JR113	1-216-295-00	METAL GLAZE 0 5% 1/10W		R077	1-216-025-00	METAL GLAZE 100 5% 1/10W	
JR114	1-216-295-00	METAL GLAZE 0 5% 1/10W				(KV-S2941A, S2941B, S2941D, S2943E, S2941K)	
JR271	1-216-295-00	METAL GLAZE 0 5% 1/10W		R101	1-216-025-00	METAL GLAZE 100 5% 1/10W	
JR272	1-216-295-00	METAL GLAZE 0 5% 1/10W				(KV-S2941A, S2941B, S2941D, S2943E, S2941K)	
JR1351	1-216-295-00	METAL GLAZE 0 5% 1/10W		R102	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
JR1352	1-216-295-00	METAL GLAZE 0 5% 1/10W		R103	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
JR1353	1-216-295-00	METAL GLAZE 0 5% 1/10W		R105	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
JR1355	1-216-295-00	METAL GLAZE 0 5% 1/10W		R108	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
JR1356	1-216-295-00	METAL GLAZE 0 5% 1/10W		R109	1-216-045-00	METAL GLAZE 680 5% 1/10W	
		(KV-S2941A, S2941D, S2943E, S2941K)		R110	1-216-045-00	METAL GLAZE 680 5% 1/10W	
JR1357	1-216-295-00	METAL GLAZE 0 5% 1/10W		R111	1-216-033-00	METAL GLAZE 220 5% 1/10W	
JR1358	1-216-296-91	METAL GLAZE 0 5% 1/8W		R115	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
JR1359	1-216-296-91	METAL GLAZE 0 5% 1/8W		R116	1-215-901-00	METAL OXIDE 33K 5% 2W F	
JR1360	1-216-296-91	METAL GLAZE 0 5% 1/8W		R117	1-216-045-00	METAL GLAZE 680 5% 1/10W	
JR1361	1-216-296-91	METAL GLAZE 0 5% 1/8W		R118	1-216-045-00	METAL GLAZE 680 5% 1/10W	
JR1362	1-216-296-91	METAL GLAZE 0 5% 1/8W		R119	1-216-025-00	METAL GLAZE 100 5% 1/10W	
JR1363	1-216-296-91	METAL GLAZE 0 5% 1/8W				(KV-S2941A, S2941B, S2941D, S2943E, S2941K)	
				R123	1-216-295-00	METAL GLAZE 0 5% 1/10W	

A

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R201	1-216-295-00	METAL GLAZE	0 5% 1/10W	R1358	1-216-295-00	METAL GLAZE	0 5% 1/10W
R202	1-216-295-00	METAL GLAZE	0 5% 1/10W	R1359	1-216-047-00	METAL GLAZE	820 5% 1/10W
R210	1-247-734-11	CARBON	39 5% 1/2W	R1360	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R211	1-247-734-11	CARBON	39 5% 1/2W	R1362	1-216-045-00	METAL GLAZE	680 5% 1/10W
R212	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1363	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R213	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1364	1-216-039-00	METAL GLAZE	390 5% 1/10W
R214	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1365	1-216-039-00	METAL GLAZE	390 5% 1/10W
R215	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1366	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
R216	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1367	1-216-031-00	METAL GLAZE	180 5% 1/10W
R217	1-216-043-00	METAL GLAZE	560 5% 1/10W	R1368	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
R218	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1369	1-216-045-00	METAL GLAZE	680 5% 1/10W
R221	1-211-771-71	FUSIBLE	4.7 5% 1/4W F	R1370	1-216-039-00	METAL GLAZE	390 5% 1/10W
R222	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1371	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R223	1-216-043-00	METAL GLAZE	560 5% 1/10W	R1372	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R224	1-249-433-11	CARBON	22K 5% 1/4W	R1373	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R225	1-211-771-71	FUSIBLE	4.7 5% 1/4W F	R1374	1-247-897-11	CARBON	560K 5% 1/4W
R226	1-249-412-11	CARBON	390 5% 1/4W	R1375	1-216-033-00	METAL GLAZE	220 5% 1/10W
R227	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1376	1-216-033-00	METAL GLAZE	220 5% 1/10W
R228	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1377	1-216-033-00	METAL GLAZE	220 5% 1/10W
R229	1-216-039-00	METAL GLAZE	390 5% 1/10W	R1378	1-216-033-00	METAL GLAZE	220 5% 1/10W
R230	1-216-246-91	METAL GLAZE	100K 5% 1/8W	R1379	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R231	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1380	1-216-099-00	METAL GLAZE	120K 5% 1/10W
R232	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1381	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R233	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W	R1382	1-216-101-00	METAL GLAZE	150K 5% 1/10W
R234	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	R1383	1-216-041-00	METAL GLAZE	470 5% 1/10W
R235	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1384	1-216-041-00	METAL GLAZE	470 5% 1/10W
R236	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1385	1-216-025-00	METAL GLAZE	100 5% 1/10W
R239	1-216-295-00	METAL GLAZE	0 5% 1/10W	(KV-S2941A, S2941B, S2941D, S2943E, S2941K)			
R241	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R1386	1-216-025-00	METAL GLAZE	100 5% 1/10W
R242	1-216-295-00	METAL GLAZE	0 5% 1/10W	(KV-S2941A, S2941B, S2941D, S2943E, S2941K)			
R244	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	R1387	1-216-025-00	METAL GLAZE	100 5% 1/10W
R245	1-216-089-91	METAL GLAZE	47K 5% 1/10W	(KV-S2941A, S2941B, S2941D, S2943E, S2941K)			
R246	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1388	1-216-043-00	METAL GLAZE	560 5% 1/10W
R247	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1389	1-216-025-00	METAL GLAZE	100 5% 1/10W
R248	1-216-025-00	METAL GLAZE	100 5% 1/10W	(KV-S2941A, S2941B, S2941D, S2943E, S2941K)			
(KV-S2941A, S2941B, S2941D, S2943E, S2941K)				R1390	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R250	1-216-095-00	METAL GLAZE	82K 5% 1/10W	R1391	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R251	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R1392	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R252	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1393	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R253	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1394	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W
R254	1-216-252-00	METAL GLAZE	180K 5% 1/8W	R1395	1-216-295-00	METAL GLAZE	0 5% 1/10W
R255	1-216-252-00	METAL GLAZE	180K 5% 1/8W	R1396	1-216-689-11	METAL GLAZE	39K 5% 1/10W
R256	1-247-807-31	CARBON	100 5% 1/4W	R1397	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R257	1-247-807-31	CARBON	100 5% 1/4W	R1399	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R258	1-216-089-91	METAL GLAZE	47K 5% 1/10W	R2301	1-216-025-00	METAL GLAZE	100 5% 1/10W
R259	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	(KV-S2941A, S2941B, S2941D, S2943E, S2941K)			
R260	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	R2302	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R294	1-216-037-00	METAL GLAZE	330 5% 1/10W	R2303	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R295	1-216-027-00	METAL GLAZE	120 5% 1/10W	R2304	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R296	1-216-075-00	METAL GLAZE	12K 5% 1/10W	R2305	1-216-683-11	METAL CHIP	22K 0.50% 1/10W
R623	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R2306	1-216-659-11	METAL CHIP	2.2K 0.50% 1/10W
R685	1-216-295-00	METAL GLAZE	0 5% 1/10W	R2307	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R691	1-249-417-11	CARBON	1K 5% 1/4W F	R2308	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R692	1-216-385-11	METAL OXIDE	0.47 5% 3W F	R2309	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R693	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R2310	1-216-683-11	METAL CHIP	22K 0.50% 1/10W
R694	1-216-471-71	METAL OXIDE	27 5% 3W F	R2311	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R695	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R2313	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R696	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R2314	1-216-037-00	METAL GLAZE	330 5% 1/10W
R697	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R2316	1-216-295-00	METAL GLAZE	0 5% 1/10W
R1354	1-216-025-00	METAL GLAZE	100 5% 1/10W	R2318	1-216-295-00	METAL GLAZE	0 5% 1/10W
(KV-S2941A, S2941B, S2941D, S2943E, S2941K)				R2320	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R1355	1-216-171-00	METAL GLAZE	75 5% 1/8W	R2321	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R1356	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R2322	1-216-023-00	METAL GLAZE	82 5% 1/10W
R1357	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W				

**A IF**

(KV-S2941A, S2941D, S2943E, S2941K)

REF. NO. PART NO. DESCRIPTION REMARK

R2361 1-216-057-00 METAL GLAZE 2.2K 5% 1/10W

&lt;VARIABLE RESISTOR&gt;

RV101 1-241-760-21 RES, ADJ, CERMET 470

&lt;TUNER&gt;

TU101A 1-693-184-11 TUNER (UP44C) (KV-S2942U)  
 TU101A 1-693-185-11 TUNER (UV916H)  
 (KV-S2941A, S2941B, S2941D, S2943E, S2941K)

\*\*\*\*\*

1-466-733-11 IF BLOCK (IFH-389)  
 \*\*\*\*\*  
 (KV-S2941A, S2941D, S2943E, S2941K)

&lt;CAPACITOR&gt;

C101 1-163-121-00 CERAMIC CHIP 150PF 5% 50V  
 C102 1-164-222-11 CERAMIC CHIP 0.22MF 25V  
 C103 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V  
 C104 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V  
 C105 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V

C106 1-124-477-11 ELECT 47MF 20% 16V  
 C107 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V  
 C108 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V  
 C109 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V  
 C112 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V

C113 1-163-101-00 CERAMIC CHIP 22PF 5% 50V  
 C114 1-124-477-11 ELECT 47MF 20% 16V  
 C115 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V  
 C116 1-164-346-11 CERAMIC CHIP 1MF 16V  
 C118 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V

C119 1-163-369-11 CERAMIC CHIP 47PF 5% 50V  
 C121 1-163-235-11 CERAMIC CHIP 22PF 5% 50V  
 C122 1-163-239-11 CERAMIC CHIP 33PF 5% 50V  
 C123 1-163-235-11 CERAMIC CHIP 22PF 5% 50V  
 C124 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V

C130 1-216-295-00 METAL GLAZE 0 5% 1/10W  
 C131 1-163-093-00 CERAMIC CHIP 10PF 5% 50V  
 C133 1-124-477-11 ELECT 47MF 20% 16V  
 C152 1-164-337-11 CERAMIC CHIP 2.2MF 16V  
 C153 1-164-337-11 CERAMIC CHIP 2.2MF 16V

C154 1-164-337-11 CERAMIC CHIP 2.2MF 16V  
 C155 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V  
 C156 1-124-477-11 ELECT 47MF 20% 16V  
 C161 1-163-117-00 CERAMIC CHIP 100PF 5% 50V  
 C162 1-164-222-11 CERAMIC CHIP 0.22MF 25V

C163 1-164-346-11 CERAMIC CHIP 1MF 16V  
 C164 1-163-141-00 CERAMIC CHIP 0.001MF 5% 50V  
 C165 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V  
 C166 1-124-477-11 ELECT 47MF 20% 16V  
 C167 1-163-213-00 CERAMIC CHIP 0.0022MF 5% 50V

C168 1-164-346-11 CERAMIC CHIP 1MF 16V  
 C170 1-124-477-11 ELECT 47MF 20% 16V  
 C171 1-124-477-11 ELECT 47MF 20% 16V  
 C172 1-124-477-11 ELECT 47MF 20% 16V  
 C173 1-124-477-11 ELECT 47MF 20% 16V

&lt;FILTER&gt;

CF2 1-527-839-00 FILTER, CERAMIC  
 CF3 1-527-840-00 FILTER, CERAMIC

The components identified by shading and mark **Δ** are critical for safety.  
 Replace only with part number specified.

Les composants identifiés par une trame et une marque **Δ** sont critiques pour la sécurité.  
 Ne les remplacer que par une pièce portant le numéro spécifié.

REF. NO. PART NO. DESCRIPTION REMARK

CF4 1-567-570-11 FILTER, CERAMIC  
 SWF1 1-579-658-11 FILTER, SAWTOOTH WAVE

&lt;CONNECTOR&gt;

CN1 1-750-173-11 PIN, CONNECTOR (PC BOARD) 10P  
 CN2 1-750-173-11 PIN, CONNECTOR (PC BOARD) 10P

&lt;TRIMMER&gt;

CT1 1-404-801-11 TRAP, CERAMIC

&lt;DIODE&gt;

D161 8-719-400-18 DIODE MA152WK

&lt;IC&gt;

IC1 8-759-070-76 IC M52308SP  
 IC2 8-759-070-71 IC TDA9820  
 IC3 8-759-514-54 IC BA7046

&lt;COIL&gt;

L101 1-408-421-00 INDUCTOR 100UH  
 L102 1-408-419-00 INDUCTOR 68UH  
 L103 1-408-419-00 INDUCTOR 68UH  
 L104 1-408-408-00 INDUCTOR 8.2UH  
 L121 1-408-413-00 INDUCTOR 22UH

L122 1-408-420-00 INDUCTOR 82UH  
 L142 1-410-790-41 INDUCTOR 0.56UH  
 L151 1-408-419-00 INDUCTOR 68UH  
 L161 1-408-419-00 INDUCTOR 68UH

&lt;TRANSISTOR&gt;

Q101 8-729-120-28 TRANSISTOR 2SC1623-L5L6  
 Q102 8-729-216-22 TRANSISTOR 2SA1162-G  
 Q121 8-729-120-28 TRANSISTOR 2SC1623-L5L6  
 Q122 8-729-216-22 TRANSISTOR 2SA1162-G  
 Q161 8-729-216-22 TRANSISTOR 2SA1162-G  
 Q170 8-729-120-28 TRANSISTOR 2SC1623-L5L6  
 Q171 8-729-120-28 TRANSISTOR 2SC1623-L5L6  
 Q172 8-729-120-28 TRANSISTOR 2SC1623-L5L6  
 Q173 8-729-120-28 TRANSISTOR 2SC1623-L5L6

&lt;RESISTOR&gt;

JR2 1-216-295-00 METAL GLAZE 0 5% 1/10W  
 JR3 1-216-296-00 METAL GLAZE 0 5% 1/8W  
 JR4 1-216-295-00 METAL GLAZE 0 5% 1/10W  
 JR7 1-216-295-00 METAL GLAZE 0 5% 1/10W  
 JR8 1-216-295-00 METAL GLAZE 0 5% 1/10W

JR9 1-216-296-00 METAL GLAZE 0 5% 1/8W  
 JR11 1-216-296-00 METAL GLAZE 0 5% 1/8W  
 JR14 1-216-296-00 METAL GLAZE 0 5% 1/8W  
 JR16 1-216-295-00 METAL GLAZE 0 5% 1/10W  
 JR18 1-216-295-00 METAL GLAZE 0 5% 1/10W

JR19 1-216-296-00 METAL GLAZE 0 5% 1/8W  
 JR20 1-216-296-00 METAL GLAZE 0 5% 1/8W  
 JR21 1-216-296-00 METAL GLAZE 0 5% 1/8W  
 JR23 1-216-296-00 METAL GLAZE 0 5% 1/8W  
 JR24 1-216-296-00 METAL GLAZE 0 5% 1/8W

JR25 1-216-296-00 METAL GLAZE 0 5% 1/8W

IF

(KV-S2941A, S2941D, S2943E, S2941K)

IF

(KV-S2942U)

REF.NO.	PART NO.	DESCRIPTION				
JR29	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR30	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR33	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR38	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR39	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR40	1-216-296-00	METAL GLAZE	0	5%	1/8W	
R101	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
R102	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R103	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R104	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
R106	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R107	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R108	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R110	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R113	1-216-031-00	METAL GLAZE	180	5%	1/10W	
R114	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R115	1-216-027-00	METAL GLAZE	120	5%	1/10W	
R116	1-216-101-00	METAL GLAZE	150K	5%	1/10W	
R117	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R118	1-216-117-00	METAL GLAZE	680K	5%	1/10W	
R119	1-216-240-00	METAL GLAZE	56K	5%	1/8W	
R120	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
R121	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R122	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R123	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
R124	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R125	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R127	1-216-047-00	METAL GLAZE	820	5%	1/10W	
R130	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R131	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R132	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R133	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R134	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R135	1-216-198-00	METAL GLAZE	1K	5%	1/8W	
R150	1-216-043-00	METAL GLAZE	560	5%	1/10W	
R151	1-216-043-00	METAL GLAZE	560	5%	1/10W	
R152	1-216-043-00	METAL GLAZE	560	5%	1/10W	
R153	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R154	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R155	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
R156	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R157	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
R159	1-216-107-00	METAL GLAZE	270K	5%	1/10W	
R160	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R161	1-218-755-11	METAL CHIP	130K	0.50%	1/10W	
R162	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R163	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R164	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R165	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R166	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R167	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R168	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R169	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R170	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R171	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
R172	1-216-095-00	METAL GLAZE	82K	5%	1/10W	
R173	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R174	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R175	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R176	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
R177	1-216-095-00	METAL GLAZE	82K	5%	1/10W	
R178	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R179	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R180	1-216-037-00	METAL GLAZE	330	5%	1/10W	

REMARK

REF.NO.

PART NO.

DESCRIPTION

REMARK

R181 1-216-037-00 METAL GLAZE 330 5% 1/10W

&lt;VARIABLE RESISTOR&gt;

RV1 1-241-121-11 RES, ADJ, CARBON 4.7K

&lt;TRANSFORMER&gt;

T4 1-416-017-21 COIL

T5 1-416-018-21 COIL

\*\*\*\*\*

1-466-734-11 IF BLOCK (IFH-395) (KV-S2942U)

\*\*\*\*\*

&lt;CAPACITOR&gt;

C101 1-163-239-11 CERAMIC CHIP 33PF 5% 50V

C102 1-164-222-11 CERAMIC CHIP 0.22MF 25V

C103 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V

C104 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V

C105 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V

C106 1-124-477-11 ELECT 47MF 20% 16V

C107 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V

C108 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V

C109 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V

C112 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V

C113 1-163-101-00 CERAMIC CHIP 22PF 5% 50V

C114 1-124-477-11 ELECT 47MF 20% 16V

C115 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V

C116 1-164-346-11 CERAMIC CHIP 1MF 16V

C118 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V

C119 1-163-369-11 CERAMIC CHIP 47PF 5% 50V

C122 1-163-093-00 CERAMIC CHIP 10PF 5% 50V

C130 1-216-295-00 METAL GLAZE 0 5% 1/10W

C131 1-163-224-11 CERAMIC CHIP 7PF 0.25PF 50V

C133 1-124-477-11 ELECT 47MF 20% 16V

C161 1-163-117-00 CERAMIC CHIP 100PF 5% 50V

C162 1-164-222-11 CERAMIC CHIP 0.22MF 25V

C163 1-164-346-11 CERAMIC CHIP 1MF 16V

C164 1-163-141-00 CERAMIC CHIP 0.001MF 5% 50V

C165 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V

C166 1-124-477-11 ELECT 47MF 20% 16V

C167 1-163-213-00 CERAMIC CHIP 0.0022MF 5% 50V

C168 1-164-346-11 CERAMIC CHIP 1MF 16V

C170 1-124-477-11 ELECT 47MF 20% 16V

C171 1-124-477-11 ELECT 47MF 20% 16V

&lt;FILTER&gt;

CD1 1-579-657-21 DISCRIMINATOR, CERAMIC

CF1 1-567-569-11 FILTER, CERAMIC

SWF1 1-579-659-11 FILTER, SAWTOOTH WAVE

&lt;CONNECTOR&gt;

CN1 1-750-173-11 PIN, CONNECTOR (PC BOARD) 10P

CN2 1-750-173-11 PIN, CONNECTOR (PC BOARD) 10P

&lt;TRIMMER&gt;

CT1 1-409-333-00 TRAP, CERAMIC (6.0MHZ)

IF

(KV-S2942U)

IF

(KV-S2941B)

REF. NO. PART NO.

DESCRIPTION

## &lt;DIODE&gt;

D161 8-719-400-18 DIODE MA152WK

## &lt;IC&gt;

IC1 8-759-070-76 IC M52308SP  
IC3 8-759-514-54 IC BA7046

## &lt;COIL&gt;

L101 1-408-414-00 INDUCTOR 27UH  
L102 1-408-419-00 INDUCTOR 68UH  
L103 1-408-419-00 INDUCTOR 68UH  
L104 1-408-406-00 INDUCTOR 5.6UH  
L105 1-408-410-00 INDUCTOR 12UHL142 1-410-790-41 INDUCTOR 0.56UH  
L161 1-408-419-00 INDUCTOR 68UH

## &lt;TRANSISTOR&gt;

Q101 8-729-120-28 TRANSISTOR 2SC1623-L5L6  
Q102 8-729-216-22 TRANSISTOR 2SA1162-G  
Q122 8-729-216-22 TRANSISTOR 2SA1162-G  
Q161 8-729-216-22 TRANSISTOR 2SA1162-G  
Q172 8-729-120-28 TRANSISTOR 2SC1623-L5L6  
Q173 8-729-120-28 TRANSISTOR 2SC1623-L5L6

## &lt;RESISTOR&gt;

JR1 1-216-296-00 METAL GLAZE 0 5% 1/8W  
JR2 1-216-295-00 METAL GLAZE 0 5% 1/10W  
JR3 1-216-296-00 METAL GLAZE 0 5% 1/8W  
JR4 1-216-295-00 METAL GLAZE 0 5% 1/10W  
JR7 1-216-295-00 METAL GLAZE 0 5% 1/10W  
JR8 1-216-295-00 METAL GLAZE 0 5% 1/10W  
JR9 1-216-296-00 METAL GLAZE 0 5% 1/8W  
JR10 1-216-296-00 METAL GLAZE 0 5% 1/8W  
JR11 1-216-296-00 METAL GLAZE 0 5% 1/8W  
JR12 1-216-295-00 METAL GLAZE 0 5% 1/10W  
JR13 1-163-093-00 CERAMIC CHIP 10PF 5% 50V  
JR14 1-216-296-00 METAL GLAZE 0 5% 1/8W  
JR16 1-216-295-00 METAL GLAZE 0 5% 1/10W  
JR18 1-216-295-00 METAL GLAZE 0 5% 1/10W  
JR19 1-216-296-00 METAL GLAZE 0 5% 1/8WJR20 1-216-296-00 METAL GLAZE 0 5% 1/8W  
JR21 1-216-296-00 METAL GLAZE 0 5% 1/8W  
JR23 1-216-296-00 METAL GLAZE 0 5% 1/8W  
JR24 1-216-296-00 METAL GLAZE 0 5% 1/8W  
JR25 1-216-296-00 METAL GLAZE 0 5% 1/8WJR29 1-216-296-00 METAL GLAZE 0 5% 1/8W  
JR30 1-216-295-00 METAL GLAZE 0 5% 1/10W  
JR33 1-216-295-00 METAL GLAZE 0 5% 1/10W  
JR38 1-216-296-00 METAL GLAZE 0 5% 1/8W  
JR39 1-216-296-00 METAL GLAZE 0 5% 1/8WJR40 1-216-296-00 METAL GLAZE 0 5% 1/8W  
JR41 1-216-295-00 METAL GLAZE 0 5% 1/10W  
JR42 1-216-295-00 METAL GLAZE 0 5% 1/10W  
JR101 1-216-295-00 METAL GLAZE 0 5% 1/10W  
R101 1-216-075-00 METAL GLAZE 12K 5% 1/10WR102 1-216-045-00 METAL GLAZE 680 5% 1/10W  
R103 1-216-057-00 METAL GLAZE 2.2K 5% 1/10W  
R104 1-216-051-00 METAL GLAZE 1.2K 5% 1/10W  
R105 1-216-043-00 METAL GLAZE 560 5% 1/10W

REMARK

REF. NO. PART NO.

DESCRIPTION

REMARK

R106 1-216-049-00 METAL GLAZE 1K 5% 1/10W

R107 1-216-065-00 METAL GLAZE 4.7K 5% 1/10W

R108 1-216-065-00 METAL GLAZE 4.7K 5% 1/10W

R110 1-216-041-00 METAL GLAZE 470 5% 1/10W

R112 1-216-045-00 METAL GLAZE 680 5% 1/10W

R113 1-216-031-00 METAL GLAZE 180 5% 1/10W

R114 1-216-049-00 METAL GLAZE 1K 5% 1/10W

R115 1-216-031-00 METAL GLAZE 180 5% 1/10W

R116 1-216-101-00 METAL GLAZE 150K 5% 1/10W

R117 1-216-097-00 METAL GLAZE 100K 5% 1/10W

R118 1-216-117-00 METAL GLAZE 680K 5% 1/10W

R119 1-216-240-00 METAL GLAZE 56K 5% 1/8W

R120 1-216-075-00 METAL GLAZE 12K 5% 1/10W

R121 1-216-053-00 METAL GLAZE 1.5K 5% 1/10W

R122 1-216-061-00 METAL GLAZE 3.3K 5% 1/10W

R123 1-216-061-00 METAL GLAZE 3.3K 5% 1/10W

R130 1-216-049-00 METAL GLAZE 1K 5% 1/10W

R131 1-216-025-00 METAL GLAZE 100 5% 1/10W

R132 1-216-069-00 METAL GLAZE 6.8K 5% 1/10W

R133 1-216-061-00 METAL GLAZE 3.3K 5% 1/10W

R134 1-216-049-00 METAL GLAZE 1K 5% 1/10W

R135 1-216-198-00 METAL GLAZE 1K 5% 1/8W

R153 1-216-025-00 METAL GLAZE 100 5% 1/10W

R159 1-216-107-00 METAL GLAZE 270K 5% 1/10W

R160 1-216-049-00 METAL GLAZE 1K 5% 1/10W

R161 1-218-755-11 METAL CHIP 130K 0.50% 1/10W

R162 1-216-073-00 METAL GLAZE 10K 5% 1/10W

R163 1-216-113-00 METAL GLAZE 470K 5% 1/10W

R164 1-216-113-00 METAL GLAZE 470K 5% 1/10W

R165 1-216-081-00 METAL GLAZE 22K 5% 1/10W

R166 1-216-049-00 METAL GLAZE 1K 5% 1/10W

R167 1-216-073-00 METAL GLAZE 10K 5% 1/10W

R168 1-216-113-00 METAL GLAZE 470K 5% 1/10W

R169 1-216-049-00 METAL GLAZE 1K 5% 1/10W

R175 1-216-083-00 METAL GLAZE 27K 5% 1/10W

R176 1-216-075-00 METAL GLAZE 12K 5% 1/10W

R177 1-216-095-00 METAL GLAZE 82K 5% 1/10W

R178 1-216-059-00 METAL GLAZE 2.7K 5% 1/10W

R179 1-216-057-00 METAL GLAZE 2.2K 5% 1/10W

R181 1-216-037-00 METAL GLAZE 330 5% 1/10W

## &lt;VARIABLE RESISTOR&gt;

RV1 1-241-121-11 RES, ADJ, CARBON 4.7K

## &lt;TRANSFORMER&gt;

T4 1-416-017-21 COIL  
T5 1-416-018-21 COIL

\*\*\*\*\*

1-466-735-11 IF BLOCK (IFH-389F) (KV-S2941B)  
\*\*\*\*\*

## &lt;CAPACITOR&gt;

C1 1-163-017-00 CERAMIC CHIP 0.0047MF 10% 50V  
C2 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V  
C3 1-124-903-11 ELECT 1MF 20% 50V  
C4 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V  
C5 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50VC6 1-163-017-00 CERAMIC CHIP 0.0047MF 10% 50V  
C7 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V

IF

(KV-S2941B)

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C8	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	CT2	1-409-429-11	TRAP, CERAMIC	
C9	1-124-916-11	ELECT 22MF	20% 25V	CV1	1-141-245-00	CAP, TRIMMER	
C10	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	CV2	1-141-245-00	CAP, TRIMMER	
C11	1-124-477-11	ELECT 47MF	20% 16V	CV3	1-141-304-21	TRIMMER, CERAMIC	
C13	1-163-059-00	CERAMIC CHIP 0.01MF	10% 50V				
C14	1-124-477-11	ELECT 47MF	20% 16V			<DIODE>	
C15	1-124-903-11	ELECT 1MF	20% 50V	D7	8-719-421-57	DIODE MA73-TX	
C16	1-163-061-00	CERAMIC CHIP 0.015MF	10% 50V	D8	8-719-421-57	DIODE MA73-TX	
C17	1-162-638-11	CERAMIC CHIP 1MF	16V	D9	8-719-421-57	DIODE MA73-TX	
C18	1-162-638-11	CERAMIC CHIP 1MF	16V			<IC>	
C19	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	IC1	8-759-070-75	IC M52312SP	
C20	1-124-902-00	ELECT 0.47MF	20% 50V	IC2	8-759-070-71	IC TDA9820	
C21	1-124-903-11	ELECT 1MF	20% 50V	IC3	8-759-979-62	IC PCF8574	
C22	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V			<COIL>	
C23	1-124-902-00	ELECT 0.47MF	20% 50V	L1	1-408-419-00	INDUCTOR 68UH	
C24	1-164-506-11	CERAMIC CHIP 4.7MF	16V	L2	1-408-419-00	INDUCTOR 68UH	
C25	1-124-477-11	ELECT 47MF	20% 16V	L3	1-408-407-00	INDUCTOR 6.8UH	
C26	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	L4	1-408-419-00	INDUCTOR 68UH	
C27	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	L5	1-408-419-00	INDUCTOR 68UH	
C28	1-124-477-11	ELECT 47MF	20% 16V	L7	1-408-406-00	INDUCTOR 5.6UH	
C33	1-124-907-11	ELECT 10MF	20% 50V	L9	1-408-419-00	INDUCTOR 68UH	
C34	1-124-907-11	ELECT 10MF	20% 50V	L71	1-408-419-00	INDUCTOR 68UH	
C35	1-124-925-11	ELECT 2.2MF	20% 50V	L101	1-408-399-00	INDUCTOR 1.5UH	
C36	1-124-477-11	ELECT 47MF	20% 16V	L121	1-408-407-00	INDUCTOR 6.8UH	
C37	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V			<TRANSISTOR>	
C38	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	Q1	8-729-907-06	TRANSISTOR BF199-AMMO	
C40	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	Q4	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C71	1-124-477-11	ELECT 47MF	20% 16V	Q5	8-729-115-10	TRANSISTOR 2SK105A-10	
C72	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	Q6	8-729-900-52	TRANSISTOR DTC114YK	
C80	1-124-477-11	ELECT 47MF	20% 16V	Q7	8-729-216-22	TRANSISTOR 2SA1162-G	
C83	1-124-477-11	ELECT 47MF	20% 16V	Q8	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C84	1-124-477-11	ELECT 47MF	20% 16V	Q10	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C85	1-124-477-11	ELECT 47MF	20% 16V	Q11	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C86	1-124-477-11	ELECT 47MF	20% 16V	Q12	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C87	1-124-477-11	ELECT 47MF	20% 16V	Q13	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C91	1-163-229-11	CERAMIC CHIP 12PF	5% 50V	Q14	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C95	1-164-337-11	CERAMIC CHIP 2.2MF	16V	Q15	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C101	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	Q16	8-729-216-22	TRANSISTOR 2SA1162-G	
C102	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	Q101	8-729-104-80	TRANSISTOR 2SC3355	
C104	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	Q121	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C105	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V			<RESISTOR>	
C106	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	JR2	1-216-295-00	METAL GLAZE 0 5% 1/10W	
C121	1-126-176-11	ELECT 220MF	20% 10V	JR3	1-216-296-00	METAL GLAZE 0 5% 1/8W	
C122	1-163-119-00	CERAMIC CHIP 120PF	5% 50V	JR5	1-216-296-00	METAL GLAZE 0 5% 1/8W	
C131	1-126-099-11	ELECT 2.2MF	20% 35V	R1	1-216-025-00	METAL GLAZE 100 5% 1/10W	
		<FILTER>		R2	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
CF1	1-527-839-00	FILTER, CERAMIC		R3	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
CF2	1-567-569-11	FILTER, CERAMIC		R4	1-216-041-00	METAL GLAZE 470 5% 1/10W	
CF3	1-527-840-00	FILTER, CERAMIC		R5	1-216-021-00	METAL GLAZE 68 5% 1/10W	
CF4	1-567-570-11	FILTER, CERAMIC		R6	1-216-055-00	METAL GLAZE 1.8K 5% 1/10W	
SWF1	1-579-662-11	FILTER, SURFACE WAVE		R8	1-216-051-00	METAL GLAZE 1.2K 5% 1/10W	
SWF3	1-404-711-11	SAWF		R9	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W	
SWF4	1-579-660-11	FILTER, SAWTOOTH WAVE		R10	1-216-071-00	METAL GLAZE 8.2K 5% 1/10W	
		<CONNECTOR>		R11	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
CN1	1-750-173-11	PIN, CONNECTOR (PC BOARD) 10P		R24	1-216-280-00	METAL GLAZE 2.7M 5% 1/8W	
CN2	1-750-173-11	PIN, CONNECTOR (PC BOARD) 10P		R25	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
		<TRIMMER>					
CT1	1-404-801-11	TRAP, CERAMIC					

IF

(KV-S2941B)

M3

REF. NO.	PART NO.	DESCRIPTION			
R26	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R27	1-216-266-00	METAL GLAZE	680K	5%	1/8W
R28	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R29	1-216-035-00	METAL GLAZE	270	5%	1/10W
R30	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R31	1-216-017-00	METAL GLAZE	47	5%	1/10W
R32	1-216-043-00	METAL GLAZE	560	5%	1/10W
R33	1-216-037-00	METAL GLAZE	330	5%	1/10W
R34	1-216-252-00	METAL GLAZE	180K	5%	1/8W
R35	1-216-035-00	METAL GLAZE	270	5%	1/10W
R36	1-216-029-00	METAL GLAZE	150	5%	1/10W
R37	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R38	1-216-099-00	METAL GLAZE	120K	5%	1/10W
R39	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R40	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R42	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R43	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R44	1-216-027-00	METAL GLAZE	120	5%	1/10W
R45	1-216-041-00	METAL GLAZE	470	5%	1/10W
R46	1-216-031-00	METAL GLAZE	180	5%	1/10W
R47	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R48	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R49	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R53	1-216-082-00	METAL GLAZE	24K	5%	1/10W
R54	1-216-043-00	METAL GLAZE	560	5%	1/10W
R55	1-216-043-00	METAL GLAZE	560	5%	1/10W
R56	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R57	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R58	1-216-041-00	METAL GLAZE	470	5%	1/10W
R59	1-216-043-00	METAL GLAZE	560	5%	1/10W
R60	1-216-043-00	METAL GLAZE	560	5%	1/10W
R61	1-216-295-00	METAL GLAZE	0	5%	1/10W
R63	1-216-043-00	METAL GLAZE	560	5%	1/10W
R71	1-216-079-00	METAL GLAZE	18K	5%	1/10W
R72	1-216-079-00	METAL GLAZE	18K	5%	1/10W
R73	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R74	1-216-079-00	METAL GLAZE	18K	5%	1/10W
R75	1-216-079-00	METAL GLAZE	18K	5%	1/10W
R76	1-216-025-00	METAL GLAZE	100	5%	1/10W
R77	1-216-174-00	METAL GLAZE	100	5%	1/8W
R81	1-216-095-00	METAL GLAZE	82K	5%	1/10W
R82	1-216-121-00	METAL GLAZE	1M	5%	1/10W
R83	1-216-025-00	METAL GLAZE	100	5%	1/10W
R84	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R85	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R86	1-216-689-11	METAL GLAZE	39K	5%	1/10W
R87	1-216-095-00	METAL GLAZE	82K	5%	1/10W
R88	1-216-095-00	METAL GLAZE	82K	5%	1/10W
R89	1-216-095-00	METAL GLAZE	82K	5%	1/10W
R90	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R91	1-216-295-00	METAL GLAZE	0	5%	1/10W
R92	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R93	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R94	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
R95	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
R96	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
R97	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R98	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R99	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R100	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R102	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R103	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W
R104	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R105	1-216-033-00	METAL GLAZE	220	5%	1/10W

REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
	R121	1-216-073-00	METAL GLAZE	10K	5%	1/10W
	R122	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
	R123	1-216-041-00	METAL GLAZE	470	5%	1/10W
	R124	1-216-041-00	METAL GLAZE	470	5%	1/10W
	R125	1-216-041-00	METAL GLAZE	470	5%	1/10W
	R301	1-216-049-00	METAL GLAZE	1K	5%	1/10W
	R302	1-216-049-00	METAL GLAZE	1K	5%	1/10W
	R303	1-216-049-00	METAL GLAZE	1K	5%	1/10W
	R304	1-216-037-00	METAL GLAZE	330	5%	1/10W
	R305	1-216-049-00	METAL GLAZE	1K	5%	1/10W
	R306	1-216-025-00	METAL GLAZE	100	5%	1/10W
	R307	1-216-037-00	METAL GLAZE	330	5%	1/10W
	R308	1-216-037-00	METAL GLAZE	330	5%	1/10W
			<VARIABLE RESISTOR>			
	RV2	1-241-120-11	RES, ADJ, CARBON	2.2K		
			<TRANSFORMER>			
	T1	1-404-806-21	COIL			
	T3	1-416-012-11	COIL			
	T4	1-416-012-11	COIL			
	T5	1-402-720-11	COIL			
			<CRYSTAL>			
	X1	1-579-648-21	VIBRATOR, CERAMIC			
			*****			
			*A-1635-018-A M3 BOARD, COMPLETE			
			*****			
			<CAPACITOR>			
	C001	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
	C002	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
	C003	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
	C004	1-164-222-11	CERAMIC CHIP	0.22MF		25V
	C007	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
	C008	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
	C010	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
	C011	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
	C012	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
	C014	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
	C016	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
	C017	1-164-222-11	CERAMIC CHIP	0.22MF		25V
	C018	1-164-505-11	CERAMIC CHIP	2.2MF		16V
	C019	1-124-916-11	ELECT	22MF	20%	50V
	C020	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
	C022	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
	C023	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
	C024	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
	C025	1-164-222-11	CERAMIC CHIP	0.22MF		25V
	C026	1-164-222-11	CERAMIC CHIP	0.22MF		25V
	C032	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
	C042	1-162-638-11	CERAMIC CHIP	1MF		16V
	C081	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
	C2001	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
	C2002	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
	C2003	1-164-222-11	CERAMIC CHIP	0.22MF		25V
	C2004	1-164-222-11	CERAMIC CHIP	0.22MF		25V
	C2005	1-163-038-00	CERAMIC CHIP	0.1MF		25V

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C2008	1-164-222-11	CERAMIC CHIP 0.22MF	25V	R010	1-216-049-00	METAL GLAZE 1K 5%	1/10W
C2010	1-163-038-00	CERAMIC CHIP 0.1MF	25V	R011	1-216-049-00	METAL GLAZE 1K 5%	1/10W
C2016	1-164-222-11	CERAMIC CHIP 0.22MF	25V	R012	1-216-049-00	METAL GLAZE 1K 5%	1/10W
C2017	1-164-222-11	CERAMIC CHIP 0.22MF	25V	R013	1-216-049-00	METAL GLAZE 1K 5%	1/10W
C2019	1-124-916-11	ELECT 22MF 20%	50V	R014	1-216-049-00	METAL GLAZE 1K 5%	1/10W
C2020	1-164-222-11	CERAMIC CHIP 0.22MF	25V	R016	1-216-045-00	METAL GLAZE 680 5%	1/10W
C2021	1-163-113-00	CERAMIC CHIP 68PF 5%	50V	R017	1-216-049-00	METAL GLAZE 1K 5%	1/10W
C2024	1-163-117-00	CERAMIC CHIP 100PF 5%	50V	R018	1-216-041-00	METAL GLAZE 470 5%	1/10W
C2025	1-163-117-00	CERAMIC CHIP 100PF 5%	50V	R019	1-216-049-00	METAL GLAZE 1K 5%	1/10W
C2027	1-164-222-11	CERAMIC CHIP 0.22MF	25V	R020	1-216-049-00	METAL GLAZE 1K 5%	1/10W
C2029	1-163-113-00	CERAMIC CHIP 68PF 5%	50V	R021	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
C2031	1-163-031-11	CERAMIC CHIP 0.01MF	50V	R022	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
<VIBRATOR CERAMIC>				R023	1-216-025-00	METAL GLAZE 100 5%	1/10W
CD001	1-579-126-11	VIBRATOR, CERAMIC		R024	1-216-049-00	METAL GLAZE 1K 5%	1/10W
<CONNECTOR>				R025	1-216-049-00	METAL GLAZE 1K 5%	1/10W
CN1413	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P		R026	1-216-049-00	METAL GLAZE 1K 5%	1/10W
CN1432	1-564-511-11	PLUG, CONNECTOR 8P		R032	1-216-049-00	METAL GLAZE 1K 5%	1/10W
<DIODE>				R033	1-216-049-00	METAL GLAZE 1K 5%	1/10W
D001	8-719-027-82	DIODE MA3039H-TX		R034	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
D2001	8-719-036-58	DIODE MA3030-H(TX)		R035	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
D2007	8-719-027-81	DIODE MA3027H-TX		R038	1-216-073-00	METAL GLAZE 10K 5%	1/10W
<IC>				R049	1-216-049-00	METAL GLAZE 1K 5%	1/10W
IC001	8-759-168-52	IC SDA30C162-GE		R050	1-216-073-00	METAL GLAZE 10K 5%	1/10W
IC002	8-759-278-59	IC TMS27PC010A15FMAE250		R051	1-216-295-00	METAL GLAZE 0 5%	1/10W
	1-750-797-11	SOCKET, PLCC; IC002		R052	1-216-295-00	METAL GLAZE 0 5%	1/10W
IC2002	8-759-262-58	IC SDA5273P-C22-GE		R054	1-216-041-00	METAL GLAZE 470 5%	1/10W
IC2003	8-759-188-60	IC MB81C4256A-70PSZG		R057	1-216-025-00	METAL GLAZE 100 5%	1/10W
<JUMPER RESISTOR>				R060	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
JR2002	1-216-295-00	METAL GLAZE 0 5%	1/10W	R067	1-216-043-00	METAL GLAZE 560 5%	1/10W
<COIL>				R068	1-216-043-00	METAL GLAZE 560 5%	1/10W
L001	1-408-421-00	INDUCTOR 100UH		R069	1-216-037-00	METAL GLAZE 330 5%	1/10W
L2001	1-410-674-31	INDUCTOR 82UH		R081	1-216-049-00	METAL GLAZE 1K 5%	1/10W
L2002	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH		R082	1-216-049-00	METAL GLAZE 1K 5%	1/10W
<TRANSISTOR>				R083	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q002	8-729-216-22	TRANSISTOR 2SA1162-G		R084	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q2002	8-729-920-74	TRANSISTOR 2SC2412K-QR		R2001	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
Q2004	8-729-901-00	TRANSISTOR DTC124EK		R2003	1-216-051-00	METAL GLAZE 1.2K 5%	1/10W
Q2005	8-729-920-74	TRANSISTOR 2SC2412K-QR		R2004	1-216-023-00	METAL GLAZE 82 5%	1/10W
Q2006	8-729-901-01	TRANSISTOR DTC144EK		R2005	1-216-041-00	METAL GLAZE 470 5%	1/10W
Q2008	8-729-901-00	TRANSISTOR DTC124EK		R2007	1-216-073-00	METAL GLAZE 10K 5%	1/10W
<RESISTOR>				R2008	1-216-025-00	METAL GLAZE 100 5%	1/10W
R001	1-216-025-00	METAL GLAZE 100 5%	1/10W	R2009	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R002	1-216-025-00	METAL GLAZE 100 5%	1/10W	R2010	1-216-025-00	METAL GLAZE 100 5%	1/10W
R003	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R2011	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R004	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R2012	1-216-017-00	METAL GLAZE 47 5%	1/10W
R005	1-216-295-00	METAL GLAZE 0 5%	1/10W	R2013	1-216-017-00	METAL GLAZE 47 5%	1/10W
R007	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R2014	1-216-017-00	METAL GLAZE 47 5%	1/10W
R008	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R2015	1-216-295-00	METAL GLAZE 0 5%	1/10W
<CRYSTAL>				R2022	1-216-049-00	METAL GLAZE 1K 5%	1/10W
X2001	1-579-965-21	VIBRATOR, CRYSTAL		R2023	1-216-295-00	METAL GLAZE 0 5%	1/10W
				R2024	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
				R2025	1-216-063-00	METAL GLAZE 3.9K 5%	1/10W
				R2026	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
				R2028	1-216-033-00	METAL GLAZE 220 5%	1/10W
				R2030	1-216-025-00	METAL GLAZE 100 5%	1/10W
				R2031	1-216-033-00	METAL GLAZE 220 5%	1/10W
				R2032	1-216-049-00	METAL GLAZE 1K 5%	1/10W
				R2036	1-216-049-00	METAL GLAZE 1K 5%	1/10W
				R2037	1-216-049-00	METAL GLAZE 1K 5%	1/10W

G

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
*****				D605	8-719-901-33	DIODE 1SS133	
*A-1636-004-A G BOARD, COMPLETE				D606	8-719-110-49	DIODE RD18ESB2	
*****				D607	8-719-979-58	DIODE EGP10D	
<CAPACITOR>				D608	8-719-110-49	DIODE RD18ESB2	
C601	1-136-165-00	FILM	0.1MF 5% 50V	D610	8-719-983-38	DIODE MTZJ-T-77-36B	
C603	1-164-644-11	CERAMIC	330PF 10% 500V	D611	8-719-979-58	DIODE EGP10D	
C604	1-164-644-11	CERAMIC	330PF 10% 500V	D612	8-719-914-43	DIODE DAN202K	
C605	1-136-481-11	FILM	0.0022MF 2% 50V	D613	8-719-914-43	DIODE DAN202K	
C607	1-124-927-11	ELECT	4.7MF 20% 50V	D614	8-719-510-48	DIODE D1N20R	
C608	1-126-337-11	ELECT	22MF 20% 50V	D615	8-719-914-43	DIODE DAN202K	
C609	1-127-530-11	ELECT (SOLID)	22MF 20% 20V	D616	8-719-510-48	DIODE D1N20R	
C610	1-137-479-11	FILM	1MF 10% 400V	D651	8-719-047-31	DIODE RBA-402L	
C611	1-130-777-00	FILM	0.1MF 5% 63V	D653	8-719-312-47	DIODE RBA-406B	
C612	1-124-903-11	ELECT	1MF 20% 50V		4-382-854-11	SCREW (M3X10), P, SW (+); D653	
C613	1-124-907-11	ELECT	10MF 20% 50V	D655	8-719-047-31	DIODE RBA-402L	
C615	1-126-337-11	ELECT	22MF 20% 50V	D657	8-719-914-43	DIODE DAN202K	
C616	1-164-493-11	CERAMIC CHIP	0.047MF 10% 50V	D658	8-719-510-48	DIODE D1N20R	
C617	1-164-493-11	CERAMIC CHIP	0.047MF 10% 50V	D661	8-719-901-33	DIODE 1SS133	
C641	1-106-367-00	MYLAR	0.01MF 10% 400V	D662	8-719-914-43	DIODE DAN202K	
C650	1-124-618-11	ELECT	2200MF 20% 35V	D663	8-719-510-53	DIODE D4SB60L	
C651	1-124-618-11	ELECT	2200MF 20% 35V	D664	8-719-109-89	DIODE RD5.6ESB2	
C654	1-107-892-91	ELECT	4700MF 20% 25V	D670	8-719-979-58	DIODE EGP10D	
C655	1-107-880-91	ELECT	4700MF 20% 10V	<FERRITE BEAD>			
C656	1-164-644-11	CERAMIC	330PF 10% 500V	FB603	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
C657	1-107-995-11	ELECT	100MF 0 160V	FB604	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
C658	1-124-917-11	ELECT	33MF 20% 50V	FB605	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
C659	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V	FB654	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
C661	$\Delta$ 1-136-527-12	FILM	0.47MF 20% 300V	FB655	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
C662	$\Delta$ 1-136-415-51	FILM	0.33MF 20% 300V	<IC>			
C663	1-106-343-00	MYLAR	0.001MF 10% 100V	IC601	8-759-266-38	IC MC34025P	
C664	1-102-002-00	CERAMIC	680PF 10% 500V	IC602	8-759-185-47	IC IR2112	
C666	1-124-479-11	ELECT	330MF 20% 25V	IC603	8-749-923-44	IC SFH617G-1	
C667	1-126-337-11	ELECT	22MF 20% 50V	IC604	8-759-908-15	IC TL431CLP	
C668	1-124-122-11	ELECT	100MF 20% 50V	IC605	8-759-013-10	IC MC7815CT	
C670	1-137-218-11	FILM	0.012MF 5% 0	IC610	$\Delta$ 1-810-051-11	POWER MODULE DM-48	
C671	1-137-218-11	FILM	0.012MF 5% 0	<JUMPER RESISTOR>			
C672	$\Delta$ 1-162-599-12	CERAMIC	0.0047MF 250V	JR651	1-216-296-91	METAL GLAZE 0 5% 1/8W	
C673	$\Delta$ 1-162-599-12	CERAMIC	0.0047MF 250V	JR652	1-216-296-91	METAL GLAZE 0 5% 1/8W	
C674	1-125-555-11	ELECT	330MF 20% 400V	<COIL>			
C675	1-124-910-11	ELECT	47MF 20% 50V	L601	1-412-525-21	INDUCTOR 10UH	
C676	1-162-599-12	CERAMIC	0.0047MF 250V	L602	1-412-525-21	INDUCTOR 10UH	
C678	$\Delta$ 1-161-742-00	CERAMIC	0.0022MF 400V	L603	1-412-525-21	INDUCTOR 10UH	
C680	$\Delta$ 1-161-742-00	CERAMIC	0.0022MF 400V	L604	1-412-525-21	INDUCTOR 10UH	
C681	1-126-337-11	ELECT	22MF 20% 50V	L650	1-412-525-21	INDUCTOR 10UH	
C682	1-124-120-11	ELECT	220MF 20% 25V	L651	$\Delta$ 1-412-525-21	INDUCTOR 10UH	
<CONNECTOR>				<LINE FILTER>			
CN0005	1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P		LF661	1-424-436-11	TRANSFORMER, LINE FILTER	
CN0006	1-695-915-11	TAB (CONTACT)		<IC LINK>			
CN0007	1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P		PS601	$\Delta$ 1-532-686-91	LINK, IC 2.7A	
CN0905	1-568-882-51	PIN, CONNECTOR 7P		PS602	$\Delta$ 1-532-686-91	LINK, IC 2.7A	
CN0931	$\Delta$ 1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P		PS603	$\Delta$ 1-532-686-91	LINK, IC 2.7A	
CN0947	1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P					
<DIODE>							
D602	8-719-979-58	DIODE EGP10D					
D603	8-719-110-49	DIODE RD18ESB2					
D604	8-719-110-49	DIODE RD18ESB2					

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.

G C

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<TRANSISTOR>							
Q601	8-729-216-22	TRANSISTOR 2SA1162-G		R670	$\Delta$ 1-205-998-11	WIREWOUND 1 5% 10W	
Q602	8-729-025-19	TRANSISTOR IRF1740G		R671	$\Delta$ 1-214-937-00	CARBON 1M 5% 1/2W	
	4-382-854-11	SCREW (M3X10), P. SW (+); IC602		R673	1-215-429-00	METAL 2.2K 1% 1/4W	
Q603	8-729-025-19	TRANSISTOR IRF1740G		R678	1-249-417-11	CARBON 1K 5% 1/4W F	
	4-382-854-11	SCREW (M3X10), P. SW (+); IC603		R679	1-216-198-91	METAL GLAZE 1K 5% 1/8W	
Q604	8-729-920-74	TRANSISTOR 2SC2412K-QR		R680	1-249-417-11	CARBON 1K 5% 1/4W F	
Q605	8-729-216-22	TRANSISTOR 2SA1162-G		R681	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
Q606	8-729-920-74	TRANSISTOR 2SC2412K-QR		R682	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
Q607	8-729-920-74	TRANSISTOR 2SC2412K-QR		R683	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
Q608	8-729-920-74	TRANSISTOR 2SC2412K-QR		R684	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
Q610	8-729-216-22	TRANSISTOR 2SA1162-G		R685	1-249-417-11	CARBON 1K 5% 1/4W	
Q652	8-729-920-74	TRANSISTOR 2SC2412K-QR		R686	1-216-352-11	METAL OXIDE 1.8 5% 1W F	
Q653	8-729-216-22	TRANSISTOR 2SA1162-G		R687	1-216-055-00	METAL GLAZE 1.8K 5% 1/10W	
Q661	8-729-920-74	TRANSISTOR 2SC2412K-QR		R688	1-216-105-00	METAL GLAZE 220K 5% 1/10W	
				R689	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
<RESISTOR>				R690	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	
R601	1-216-444-11	METAL OXIDE 82K 5% 1W F		R691	1-249-419-11	CARBON 1.5K 5% 1/4W F	
R602	1-216-444-11	METAL OXIDE 82K 5% 1W F		<RELAY>			
R603	1-216-444-11	METAL OXIDE 82K 5% 1W F		RY661	$\Delta$ 1-515-720-31	RELAY	
R604	1-216-660-11	METAL CHIP 2.4K 0.50% 1/10W		<TRANSFORMER>			
R605	1-216-236-11	METAL GLAZE 39K 5% 1/8W		T650	$\Delta$ 1-426-863-11	TRANSFORMER, CONVERTER (PIT)	
R606	1-216-669-11	METAL CHIP 5.6K 0.50% 1/10W		<THERMISTOR>			
R607	1-216-073-00	METAL GLAZE 10K 5% 1/10W		THP661	$\Delta$ 1-809-827-11	THERMISTOR, POSITIVE	
R608	1-249-393-11	CARBON 10 5% 1/4W		*****			
R609	1-249-389-11	CARBON 4.7 5% 1/4W F		*A-1638-044-A C BOARD, COMPLETE			
R610	1-215-880-00	METAL OXIDE 10 5% 2W F		*****			
R611	1-249-393-11	CARBON 10 5% 1/4W		<CAPACITOR>			
R612	1-249-389-11	CARBON 4.7 5% 1/4W F		C701	1-126-383-11	ELECT 0.33MF 20% 315V	
R613	1-211-968-11	WIREWOUND 0.56 10% 5W F		C702	1-126-383-11	ELECT 0.33MF 20% 315V	
R614	1-215-880-00	METAL OXIDE 10 5% 2W F		C703	1-126-383-11	ELECT 0.33MF 20% 315V	
R616	1-216-222-00	METAL GLAZE 10K 5% 1/8W		C704	1-102-129-00	CERAMIC 0.01MF 10% 50V	
R617	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W		C705	1-124-120-11	ELECT 220MF 20% 16V	
R618	1-216-222-00	METAL GLAZE 10K 5% 1/8W		C706	1-124-120-11	ELECT 220MF 20% 16V	
R619	1-216-254-00	METAL GLAZE 220K 5% 1/8W		C708	1-124-120-11	ELECT 220MF 20% 16V	
R620	1-216-198-91	METAL GLAZE 1K 5% 1/8W		C709	1-102-157-00	CERAMIC 560PF 10% 500V	
R621	1-216-097-00	METAL GLAZE 100K 5% 1/10W		C710	1-102-157-00	CERAMIC 560PF 10% 500V	
R625	1-216-049-00	METAL GLAZE 1K 5% 1/10W		C711	1-102-157-00	CERAMIC 560PF 10% 500V	
R626	1-216-186-00	METAL GLAZE 330 5% 1/8W		C712	1-124-927-11	ELECT 4.7MF 20% 50V	
R628	1-249-441-11	CARBON 100K 5% 1/4W		C713	1-162-116-00	CERAMIC 680PF 10% 2KV	
R632	1-249-441-11	CARBON 100K 5% 1/4W		C714	1-162-115-00	CERAMIC 330PF 10% 2KV	
R633	1-216-049-00	METAL GLAZE 1K 5% 1/10W		C716	1-162-116-00	CERAMIC 680PF 10% 2KV	
R634	1-216-186-00	METAL GLAZE 330 5% 1/8W		C717	1-102-129-00	CERAMIC 0.01MF 10% 50V	
R635	1-215-442-00	METAL 7.5K 1% 1/4W		C718	1-102-129-00	CERAMIC 0.01MF 10% 50V	
R636	1-215-431-00	METAL 2.7K 1% 1/4W		C719	1-164-346-11	CERAMIC CHIP 1MF 16V	
R637	1-247-807-31	CARBON 100 5% 1/4W		C720	1-126-326-51	ELECT 10MF 20% 250V	
R638	1-216-073-00	METAL GLAZE 10K 5% 1/10W		<CONNECTOR>			
R639	1-216-089-91	METAL GLAZE 47K 5% 1/10W		CN0004	1-695-915-11	TAB (CONTACT)	
R640	1-249-417-11	CARBON 1K 5% 1/4W F		CN0403	*1-564-513-11	PLUG, CONNECTOR 10P	
R641	1-247-903-00	CARBON 1M 5% 1/4W		CN0421	*1-508-767-00	PIN, CONNECTOR (5MM PITCH) 5P	
R642	1-247-903-00	CARBON 1M 5% 1/4W					
R643	1-216-691-11	METAL CHIP 47K 0.50% 1/10W					
R651	1-215-880-00	METAL OXIDE 10 5% 2W F					
R658	1-249-415-11	CARBON 680 5% 1/4W					
R660	1-207-905-00	WIREWOUND 0.27 10% 2W F					
R662	1-249-427-11	CARBON 6.8K 5% 1/4W					
R663	1-249-424-11	CARBON 3.9K 5% 1/4W F					
R664	$\Delta$ 1-205-998-11	WIREWOUND 1 5% 10W					
R665	$\Delta$ 1-218-265-11	METAL GLAZE 8.2M 5% 1W					
R667	1-249-430-11	CARBON 12K 5% 1/4W					
R668	1-249-436-11	CARBON 39K 5% 1/4W					
R669	$\Delta$ 1-205-998-11	WIREWOUND 1 5% 10W					

**C****D6**

REF. NO. PART NO. DESCRIPTION

## &lt;DIODE&gt;

D701 8-719-901-33 DIODE 1SS133  
 D702 8-719-901-83 DIODE 1SS83  
 D703 8-719-901-83 DIODE 1SS83  
 D704 8-719-901-83 DIODE 1SS83  
 D705 8-719-901-33 DIODE 1SS133

D706 8-719-901-33 DIODE 1SS133  
 D707 8-719-901-33 DIODE 1SS133  
 D710 8-719-901-33 DIODE 1SS133  
 D712 8-719-921-69 DIODE NTZJ-9.1  
 D714 8-719-921-88 DIODE MTZJ-13B

D715 8-719-911-19 DIODE 1SS119  
 D716 8-719-911-19 DIODE 1SS119  
 D717 8-719-911-19 DIODE 1SS119

## &lt;IC&gt;

IC703 8-759-073-90 IC TDA6111Q  
 4-382-854-11 SCREW (M3X10), P, SW (+); IC703  
 IC704 8-759-073-90 IC TDA6111Q  
 4-382-854-11 SCREW (M3X10), P, SW (+); IC704  
 IC705 8-759-073-90 IC TDA6111Q  
 4-382-854-11 SCREW (M3X10), P, SW (+); IC705

## &lt;SOCKET&gt;

J701  $\Delta$  1-526-990-13 SOCKET, PICTURE TUBE

## &lt;COIL&gt;

L701 1-410-671-31 INDUCTOR 47UH  
 L704 1-408-405-00 INDUCTOR 4.7UH  
 L705 1-408-405-00 INDUCTOR 4.7UH  
 L706 1-408-405-00 INDUCTOR 4.7UH

## &lt;TRANSISTOR&gt;

Q701 8-729-255-12 TRANSISTOR 2SC2551-0  
 Q702 8-729-255-12 TRANSISTOR 2SC2551-0  
 Q703 8-729-255-12 TRANSISTOR 2SC2551-0  
 Q704 8-729-216-22 TRANSISTOR 2SA1162-G  
 Q705 8-729-901-06 TRANSISTOR DT144EK  
 Q706 8-729-920-74 TRANSISTOR 2SC2412K-QR

## &lt;RESISTOR&gt;

R701 1-216-055-00 METAL GLAZE 1.8K 5% 1/10W  
 R702 1-216-065-00 METAL GLAZE 4.7K 5% 1/10W  
 R703 1-249-435-11 CARBON 33K 5% 1/4W  
 R704 1-216-071-00 METAL GLAZE 8.2K 5% 1/10W  
 R705 1-216-065-00 METAL GLAZE 4.7K 5% 1/10W  
 R706 1-249-433-11 CARBON 22K 5% 1/4W  
 R707 1-249-433-11 CARBON 22K 5% 1/4W  
 R708 1-249-433-11 CARBON 22K 5% 1/4W  
 R709 1-249-416-11 CARBON 820 5% 1/4W  
 R710 1-216-047-00 METAL GLAZE 820 5% 1/10W  
 R711 1-216-047-00 METAL GLAZE 820 5% 1/10W  
 R712 1-216-057-00 METAL GLAZE 2.2K 5% 1/10W  
 R713 1-249-417-11 CARBON 1K 5% 1/4W  
 R714 1-216-049-00 METAL GLAZE 1K 5% 1/10W  
 R715 1-216-049-00 METAL GLAZE 1K 5% 1/10W  
 R716 1-216-049-00 METAL GLAZE 1K 5% 1/10W  
 R717 1-249-417-11 CARBON 1K 5% 1/4W

The components identified by shading and mark  $\Delta$  are critical for safety.  
 Replace only with part number specified.

Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité.  
 Ne les remplacer que par une pièce portant le numéro spécifié.

REMARK REF. NO. PART NO. DESCRIPTION REMARK

R718 1-249-417-11 CARBON 1K 5% 1/4W  
 R719 1-249-417-11 CARBON 1K 5% 1/4W  
 R720 1-215-926-00 METAL OXIDE 33K 5% 3W F

R721 1-215-926-00 METAL OXIDE 33K 5% 3W F  
 R722 1-215-926-00 METAL OXIDE 33K 5% 3W F  
 R723 1-249-408-11 CARBON 180 5% 1/4W  
 R724 1-249-408-11 CARBON 180 5% 1/4W  
 R725 1-249-408-11 CARBON 180 5% 1/4W

R726 1-202-565-81 SOLID 470 20% 1/2W  
 R727 1-202-565-81 SOLID 470 20% 1/2W  
 R728 1-202-565-81 SOLID 470 20% 1/2W  
 R729 1-249-424-11 CARBON 3.9K 5% 1/4W  
 R730 1-249-424-11 CARBON 3.9K 5% 1/4W

R731 1-249-424-11 CARBON 3.9K 5% 1/4W  
 R732 1-202-549-00 SOLID 100 20% 1/2W  
 R733 1-216-081-00 METAL GLAZE 22K 5% 1/10W  
 R734 1-202-549-00 SOLID 100 20% 1/2W  
 R735 1-216-047-00 METAL GLAZE 820 5% 1/10W

R741 1-202-884-11 SOLID 820K 20% 1/2W  
 R743 1-202-884-11 SOLID 820K 20% 1/2W  
 R744 1-202-842-11 SOLID 220K 20% 1/2W  
 R750 1-216-073-00 METAL GLAZE 10K 5% 1/10W  
 R751 1-216-091-00 METAL GLAZE 56K 5% 1/10W

R752 1-249-417-11 CARBON 1K 5% 1/4W F  
 R753 1-215-911-11 METAL OXIDE 100 5% 3W F

## &lt;VARIABLE RESISTOR&gt;

RV701 1-230-641-11 RES, ADJ, METAL GLAZE 2.2M  
 RV704 1-241-656-11 RES, ADJ, METAL FILM 110M

\*\*\*\*\*

\*A-1640-125-A D6 BOARD, COMPLETE  
 \*\*\*\*\*

## &lt;CAPACITOR&gt;

C2541 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V  
 C2542 1-163-037-11 CERAMIC CHIP 0.022MF 10% 25V  
 C2543 1-164-161-11 CERAMIC CHIP 0.0022MF 10% 50V  
 C2544 1-164-161-11 CERAMIC CHIP 0.0022MF 10% 50V  
 C2545 1-164-222-11 CERAMIC CHIP 0.22MF 25V

C2546 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V  
 C2547 1-163-020-00 CERAMIC CHIP 0.0082MF 10% 50V  
 C2548 1-163-141-00 CERAMIC CHIP 0.001MF 5% 50V  
 C2549 1-163-989-11 CERAMIC CHIP 0.033MF 10% 25V  
 C2550 1-163-141-00 CERAMIC CHIP 0.001MF 5% 50V

C2551 1-163-141-00 CERAMIC CHIP 0.001MF 5% 50V  
 C2554 1-163-011-11 CERAMIC CHIP 0.0015MF 10% 50V  
 C2560 1-164-161-11 CERAMIC CHIP 0.0022MF 10% 50V  
 C2563 1-163-031-11 CERAMIC CHIP 0.01MF 50V  
 C2564 1-163-031-11 CERAMIC CHIP 0.01MF 50V

C2565 1-163-031-11 CERAMIC CHIP 0.01MF 50V  
 C2566 1-163-031-11 CERAMIC CHIP 0.01MF 50V  
 C2567 1-163-009-11 CERAMIC CHIP 0.001MF 10% 50V  
 C2568 1-163-009-11 CERAMIC CHIP 0.001MF 10% 50V  
 C2569 1-164-161-11 CERAMIC CHIP 0.0022MF 10% 50V

C2570 1-164-336-11 CERAMIC CHIP 0.33MF 25V  
 C2573 1-164-232-11 CERAMIC CHIP 0.01MF 50V  
 C2583 1-124-477-11 ELECT 47MF 20% 25V  
 C2590 1-163-038-00 CERAMIC CHIP 0.1MF 25V  
 C2591 1-163-989-11 CERAMIC CHIP 0.033MF 10% 25V

C2592 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V


— 155 —

D

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C801	1-124-347-00	ELECT 100MF	20% 160V	C2507	1-124-903-11	ELECT 1MF	20% 50V
C802	1-136-207-11	FILM 0.047MF	10% 250V	C2508	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C803	1-102-212-00	CERAMIC 820PF	10% 500V	C2509	1-124-903-11	ELECT 1MF	20% 50V
C804	1-163-001-11	CERAMIC CHIP 220PF	10% 50V	C2511	1-163-002-11	CERAMIC CHIP 270PF	10% 50V
C807	1-162-115-00	CERAMIC 330PF	10% 2KV	C2520	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C808	1-162-116-00	CERAMIC 680PF	10% 2KV	C2521	1-124-927-11	ELECT 4.7MF	20% 50V
C809	1-162-116-00	CERAMIC 680PF	10% 2KV	C2522	1-124-927-11	ELECT 4.7MF	20% 50V
C810	1-137-102-11	FILM 0.022MF	10% 250V	C2523	1-124-910-11	ELECT 47MF	20% 50V
C811	1-109-948-11	CAP, FILM 15000PF		C2528	1-164-695-11	CERAMIC CHIP 0.0022MF	5% 50V
C812	1-136-315-61	FILM 0.047MF	5% 630V				
C813	0-551-837-00	CAP, PP FILM				<CONNECTOR>	
C814	1-129-702-00	FILM 0.001MF	10% 400V	CN0005	1-695-915-11	TAB (CONTACT)	
C815	1-163-205-00	CERAMIC CHIP 0.001MF	10% 50V	CN0009*1	1-564-506-11	PLUG, CONNECTOR 3P	
C816	0-551-837-00	CAP, PP FILM		CN0502*1	1-564-506-11	PLUG, CONNECTOR 3P	
C819	1-136-189-00	FILM 0.1MF	10% 250V	CN0504	1-564-511-11	PLUG, CONNECTOR 8P	
C820	1-124-927-11	ELECT 4.7MF	20% 50V	CN0521*1	1-508-767-00	PIN, CONNECTOR (5MM PITCH) 5P	
C821	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	CN0523	1-573-296-11	CONNECTOR, BOARD TO BOARD 10P	
C822	1-124-910-11	ELECT 47MF	20% 50V	CN0544	1-573-296-11	CONNECTOR, BOARD TO BOARD 10P	
C823	1-137-370-11	FILM 0.01MF	5% 50V	CN0546*1	1-564-514-11	PLUG, CONNECTOR 11P	
C824	1-162-117-00	CERAMIC 100PF	10% 500V	CN0547	1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P	
C825	1-124-790-11	ELECT 0.47MF	20% 100V			<DIODE>	
C826	1-124-910-11	ELECT 47MF	20% 50V	D802	8-719-979-99	DIODE ERD08M-15	
C833	1-130-471-00	FILM 0.001MF	5% 50V		4-382-854-11	SCREW (M3X10), P, SW (+); D802	
C834	1-162-114-00	CERAMIC 0.0047MF	2KV	D803	8-719-043-14	DIODE ESAD39M-06C	
C835	1-123-950-00	ELECT 47MF	20% 250V		4-382-854-11	SCREW (M3X10), P, SW (+); D803	
C836	1-102-228-00	CERAMIC 470PF	10% 500V	D804	8-719-971-20	DIODE ERC38-06	
C837	1-102-228-00	CERAMIC 470PF	10% 500V	D805	8-719-908-03	DIODE GP08D	
C838	1-102-228-00	CERAMIC 470PF	10% 500V	D806	8-719-908-03	DIODE GP08D	
C839	1-124-480-11	ELECT 470MF	20% 25V	D807	8-719-914-43	DIODE DAN202K	
C840	1-124-480-11	ELECT 470MF	20% 25V	D808	8-719-914-44	DIODE DAP202K	
C841	1-106-375-12	MYLAR 0.022MF	10% 250V	D810	8-719-018-82	DIODE RGP02-20EL-6394	
C842	1-136-559-11	MYLAR 0.0047MF	10% 400V	D811	8-719-302-43	DIODE EL1Z	
C845	1-106-220-00	MYLAR 0.1MF	10% 100V	D812	8-719-302-43	DIODE EL1Z	
C855	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	D813	8-719-302-43	DIODE EL1Z	
C860	1-137-370-11	FILM 0.01MF	5% 50V	D814	8-719-979-85	DIODE EGP20G	
C861	1-130-471-00	FILM 0.001MF	5% 50V	D819	8-719-914-43	DIODE DAN202K	
C862	1-124-907-11	ELECT 10MF	20% 50V	D860	8-719-914-44	DIODE DAP202K	
C863	1-163-077-00	CERAMIC CHIP 0.1MF	10% 25V	D861	8-719-914-42	DIODE DA204K	
C871	1-130-777-00	FILM 0.1MF	5% 63V	D862	8-719-914-43	DIODE DAN202K	
C872	1-163-075-00	CERAMIC CHIP 0.047MF	10% 25V	D863	8-719-914-43	DIODE DAN202K	
C873	1-162-115-00	CERAMIC 330PF	10% 2KV	D871	8-719-914-44	DIODE DAP202K	
C874	1-164-625-11	CERAMIC 680PF	10% 500V	D1501	8-719-914-43	DIODE DAN202K	
C890	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V	D1502	8-719-982-03	DIODE MTZJ-3.6A	
C891	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	D1503	8-719-908-03	DIODE GP08D	
C1501	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	D2501	8-719-914-44	DIODE DAP202K	
C1502	1-124-903-11	ELECT 1MF	20% 50V	D2502	8-719-109-85	DIODE RD5.1ESB2	
C1503	1-124-907-11	ELECT 10MF	20% 50V	D2503	8-719-908-03	DIODE GP08D	
C1504	1-124-122-11	ELECT 100MF	20% 50V	D2507	8-719-914-44	DIODE DAP202K	
C1505	1-137-371-11	FILM 0.015MF	5% 50V	D2508	8-719-914-43	DIODE DAN202K	
C1506	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V			<PLUG>	
C1507	1-106-383-00	MYLAR 0.047MF	10% 100V	DY1	*1-568-536-11	PLUG (MINIATURE DY) 6P	
C1508	1-137-423-11	MYLAR 0.15MF	10% 100V			<IC>	
C1510	1-136-110-00	FILM 0.91MF	5% 200V	IC801	8-759-103-93	IC UPC393C	
C1511	1-124-480-11	ELECT 470MF	20% 25V	IC1501	8-759-192-71	IC STV9379	
C1512	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V		4-202-373-01	SPRING, IC; IC1501	
C1513	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V		4-812-134-00	RIVET NYLON, 3.5; IC1501	
C1514	1-124-480-11	ELECT 470MF	20% 25V	IC2501	8-759-076-84	IC LA7851MK	
C1516	1-124-006-11	ELECT 10MF	20% 25V				
C2502	1-163-117-00	CERAMIC CHIP 100PF	5% 50V				
C2503	1-163-139-00	CERAMIC CHIP 820PF	5% 50V				
C2504	1-124-120-11	ELECT 220MF	20% 16V				
C2505	1-163-001-11	CERAMIC CHIP 220PF	10% 50V				
C2506	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V				

D

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<JUMPER RESISTOR>				R801	1-249-399-11	CARBON 33 5%	1/4W F
JR1	1-216-295-00	METAL GLAZE 0 5%	1/10W	R802	1-215-914-11	METAL OXIDE 330 5%	3W F
JR2	1-216-295-00	METAL GLAZE 0 5%	1/10W	R803	1-215-914-11	METAL OXIDE 330 5%	3W F
JR3	1-216-295-00	METAL GLAZE 0 5%	1/10W	R804	1-215-914-11	METAL OXIDE 330 5%	3W F
JR4	1-216-295-00	METAL GLAZE 0 5%	1/10W	R805	1-216-485-11	METAL OXIDE 5.6K 5%	3W F
JR6	1-216-295-00	METAL GLAZE 0 5%	1/10W	R806	1-249-411-11	CARBON 330 5%	1/4W
JR7	1-216-295-00	METAL GLAZE 0 5%	1/10W	R807	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
JR8	1-216-295-00	METAL GLAZE 0 5%	1/10W	R809	1-215-880-00	METAL OXIDE 10 5%	2W F
JR9	1-216-295-00	METAL GLAZE 0 5%	1/10W	R810	1-215-914-11	METAL OXIDE 330 5%	3W F
JR10	1-216-295-00	METAL GLAZE 0 5%	1/10W	R812	1-216-400-71	METAL OXIDE 8.2 5%	3W F
JR11	1-216-295-00	METAL GLAZE 0 5%	1/10W	R813	1-216-400-71	METAL OXIDE 8.2 5%	3W F
JR12	1-216-295-00	METAL GLAZE 0 5%	1/10W	R814	1-216-400-71	METAL OXIDE 8.2 5%	3W F
JR13	1-216-295-00	METAL GLAZE 0 5%	1/10W	R815	1-216-434-11	METAL OXIDE 1.8K 5%	1W F
JR14	1-216-295-00	METAL GLAZE 0 5%	1/10W	R816	1-249-377-11	CARBON 0.47 5%	1/4W F
JR501	1-216-296-91	METAL GLAZE 0 5%	1/8W	R817	1-249-377-11	CARBON 0.47 5%	1/4W F
JR502	1-216-296-91	METAL GLAZE 0 5%	1/8W	R818	1-249-377-11	CARBON 0.47 5%	1/4W F
JR503	1-216-296-91	METAL GLAZE 0 5%	1/8W	R819	1-249-377-11	CARBON 0.47 5%	1/4W F
JR504	1-216-296-91	METAL GLAZE 0 5%	1/8W	R820	1-214-907-00	METAL 56K 1%	1/2W
JR505	1-216-296-91	METAL GLAZE 0 5%	1/8W	R821	1-249-428-11	CARBON 8.2K 5%	1/4W
JR506	1-216-296-91	METAL GLAZE 0 5%	1/8W	R822	1-216-073-00	METAL GLAZE 10K 5%	1/10W
JR507	1-216-296-91	METAL GLAZE 0 5%	1/8W	R826	1-216-121-00	METAL GLAZE 1M 5%	1/10W
JR508	1-216-296-91	METAL GLAZE 0 5%	1/8W	R830	1-211-795-71	FUSIBLE 470 5%	1/4W F
JR509	1-216-296-91	METAL GLAZE 0 5%	1/8W	R831	1-215-915-11	METAL OXIDE 470 5%	3W F
<COIL>				R833	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
L802	1-459-123-00	COIL, DUST CORE (PAC)		R834	1-202-842-11	SOLID 220K 20%	1/2W
L803	1-459-123-00	COIL, DUST CORE (PAC)		R835	1-216-230-00	METAL GLAZE 22K 5%	1/8W
L808	1-412-519-11	INDUCTOR 3.3UH		R837	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W
L809	1-412-519-11	INDUCTOR 3.3UH		R838	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
L810	1-412-519-11	INDUCTOR 3.3UH		R839	1-216-214-00	METAL GLAZE 4.7K 5%	1/8W
L811	1-459-104-00	COIL, WITH CORE		R840	1-216-083-00	METAL GLAZE 27K 5%	1/10W
L813	1-459-104-00	COIL, WITH CORE		R841	1-249-423-11	CARBON 3.3K 5%	1/4W
L814	1-422-613-11	COIL, AIR CORE		R842	1-249-399-11	CARBON 33 5%	1/4W F
L816	1-408-947-00	INDUCTOR 2.2MMH		R843	1-202-826-00	SOLID 4.7K 10%	1/2W
L817	1-422-613-11	COIL, AIR CORE		R844	1-215-445-00	METAL 10K 1%	1/4W
L818	1-459-123-00	COIL, DUST CORE (PAC)		R845	1-216-099-00	METAL GLAZE 120K 5%	1/10W
L1503	1-412-524-11	INDUCTOR 8.2UH		R847	1-249-416-11	CARBON 820 5%	1/4W
<TRANSISTOR>				R848	1-215-477-00	METAL 220K 1%	1/4W
Q801	8-729-119-80	TRANSISTOR 2SC2688-LK		R849	1-216-073-00	METAL GLAZE 10K 5%	1/10W
Q802	8-729-821-07	TRANSISTOR 2SC3997CA		R850	1-249-409-11	CARBON 220 5%	1/4W
	4-200-399-01	SPACER, IC; Q802		R851	1-216-374-71	METAL OXIDE 2.7 5%	2W F
	4-382-854-11	SCREW (M3X10), P, SW (+); Q802		R852	1-216-109-00	METAL GLAZE 330K 5%	1/10W
Q803	8-729-017-06	TRANSISTOR 2SC4793		R853	1-216-107-00	METAL GLAZE 270K 5%	1/10W
	4-382-854-11	SCREW (M3X10), P, SW (+); Q803		R855	1-216-125-00	METAL GLAZE 1.5M 5%	1/10W
Q804	8-729-378-84	TRANSISTOR 2SD788-5		R857	1-216-113-00	METAL GLAZE 470K 5%	1/10W
Q805	8-729-119-78	TRANSISTOR 2SC2785-HFE		R858	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q806	8-729-903-29	TRANSISTOR DTA144TK		R860	1-216-089-91	METAL GLAZE 47K 5%	1/10W
Q860	8-729-920-74	TRANSISTOR 2SC2412K-QR		R861	1-216-073-00	METAL GLAZE 10K 5%	1/10W
Q861	8-729-216-22	TRANSISTOR 2SA1162-G		R862	1-216-073-00	METAL GLAZE 10K 5%	1/10W
Q1501	8-729-920-74	TRANSISTOR 2SC2412K-QR		R863	1-216-222-00	METAL GLAZE 10K 5%	1/8W
Q1502	8-729-901-01	TRANSISTOR DTC144EK		R864	1-216-081-00	METAL GLAZE 22K 5%	1/10W
Q1503	8-729-216-22	TRANSISTOR 2SA1162-G		R865	1-216-208-00	METAL GLAZE 2.7K 5%	1/8W
Q1504	8-729-901-01	TRANSISTOR DTC144EK		R866	1-249-389-11	CARBON 4.7 5%	1/4W F
Q1505	8-729-926-79	TRANSISTOR IRF1BC40		R871	1-216-093-00	METAL GLAZE 68K 5%	1/10W
Q2502	8-729-900-51	TRANSISTOR DTA114TK		R872	1-216-113-00	METAL GLAZE 470K 5%	1/10W
<RESISTOR>				R873	1-216-113-00	METAL GLAZE 470K 5%	1/10W
				R890	1-216-256-00	METAL GLAZE 270K 5%	1/8W
				R891	1-216-103-91	METAL GLAZE 180K 5%	1/10W
				R892	1-216-113-00	METAL GLAZE 470K 5%	1/10W
				R893	1-216-113-00	METAL GLAZE 470K 5%	1/10W
				R894	1-216-121-00	METAL GLAZE 1M 5%	1/10W
				R899	1-249-377-11	CARBON 0.47 5%	1/4W F
				R1501	1-216-663-11	METAL CHIP 3.3K 0.50%	1/10W
				R1502	1-216-663-11	METAL CHIP 3.3K 0.50%	1/10W

Les composants identifiés par une  
trame et une marque  sont  
critiques pour la sécurité.  
Ne les remplacer que par une pièce  
portant le numéro spécifié.

<VARIABLE RESISTOR>

<TRANSFORMER>

\*\*\*\*\*

<CAPACITOR>

D-11 ELECT 47MF<CONNECTOR>

&lt;DIODE&gt;

<IC>

<JUMPER RESISTOR>

<COLL>

<IC LINK>

<TRANSISTOR>

158

D2

E2

(KV-S2941B)

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
Q1860	8-729-920-74	TRANSISTOR 2SC2412K-QR		C15	1-163-037-11	CERAMIC CHIP 0.022MF	10% 25V
Q1861	8-729-017-06	TRANSISTOR 2SC4793		C16	1-124-907-11	ELECT 10MF	20% 50V
<RESISTOR>				C17	1-163-037-11	CERAMIC CHIP 0.022MF	10% 25V
R1841	1-216-085-00	METAL GLAZE 33K 5% 1/10W		C18	1-163-119-00	CERAMIC CHIP 120PF	5% 50V
R1842	1-260-111-11	CARBON 10K 5% 1/2W		<CONNECTOR>			
R1843	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W		CN2	*1-568-880-51	PIN, CONNECTOR 5P	
R1844	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W		<DIODE>			
R1847	1-249-399-11	CARBON 33 5% 1/4W F		D1	8-719-914-43	DIODE DAN202K	
R1848	1-215-875-11	METAL OXIDE 10K 5% 1W F		<IC>			
R1849	1-260-111-11	CARBON 10K 5% 1/2W		IC1	8-759-521-22	IC TDA4650/V4	
R1851	1-216-429-00	METAL OXIDE 270 5% 1W F		IC2	8-759-140-53	IC UPD4053BC	
R1852	1-216-089-91	METAL GLAZE 47K 5% 1/10W		<JUMPER RESISTOR>			
R1853	1-216-684-91	METAL CHIP 24K 0.50% 1/10W		JR1	1-216-295-00	METAL GLAZE 0 5% 1/10W	
R1854	1-216-075-00	METAL GLAZE 12K 5% 1/10W		JR2	1-216-295-00	METAL GLAZE 0 5% 1/10W	
R1855	1-216-429-00	METAL OXIDE 270 5% 1W F		JR3	1-216-295-00	METAL GLAZE 0 5% 1/10W	
R1856	1-216-474-11	METAL OXIDE 82 5% 3W F		JR4	1-216-295-00	METAL GLAZE 0 5% 1/10W	
R1861	1-216-073-00	METAL GLAZE 10K 5% 1/10W		JR5	1-216-295-00	METAL GLAZE 0 5% 1/10W	
R1862	1-216-045-00	METAL GLAZE 680 5% 1/10W		JR101	1-216-296-91	METAL GLAZE 0 5% 1/8W	
R1863	1-216-097-00	METAL GLAZE 100K 5% 1/10W		JR104	1-216-296-91	METAL GLAZE 0 5% 1/8W	
R1864	1-215-875-11	METAL OXIDE 10K 5% 1W F		JR105	1-216-296-91	METAL GLAZE 0 5% 1/8W	
R1865	1-216-474-11	METAL OXIDE 82 5% 3W F		JR106	1-216-296-91	METAL GLAZE 0 5% 1/8W	
R1866	1-216-077-00	METAL GLAZE 15K 5% 1/10W		JR107	1-216-296-91	METAL GLAZE 0 5% 1/8W	
R1875	1-216-673-11	METAL CHIP 8.2K 0.50% 1/10W		<COIL>			
R1877	1-216-093-00	METAL GLAZE 68K 5% 1/10W		L1	1-408-421-00	INDUCTOR 100UH	
R1878	1-260-092-11	CARBON 270 5% 1/2W		L2	1-404-554-11	COIL	
R1881	1-260-092-11	CARBON 270 5% 1/2W		L3	1-404-554-11	COIL	
R1885	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W		<TRANSISTOR>			
R1894	1-216-073-00	METAL GLAZE 10K 5% 1/10W		Q2	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
R1895	1-216-097-00	METAL GLAZE 100K 5% 1/10W		Q3	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
R1896	1-215-867-00	METAL OXIDE 470 5% 1W F		Q4	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
R1898	1-216-013-00	METAL GLAZE 33 5% 1/10W		Q5	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
R1899	1-216-013-00	METAL GLAZE 33 5% 1/10W		<RESISTOR>			
<VARIABLE RESISTOR>				R2	1-216-041-00	METAL GLAZE 470 5% 1/10W	
RV1851	1-241-765-11	RES, ADJ, CERMET 22K		R3	1-216-041-00	METAL GLAZE 470 5% 1/10W	
RV1853	1-241-628-11	RES, ADJ, CARBON 2.2K		R4	1-216-001-00	METAL GLAZE 10 5% 1/10W	
<TRANSFORMER>				R5	1-216-033-00	METAL GLAZE 220 5% 1/10W	
T1851	1-423-786-11	TRANSFORMER, FERRITE (VPOT)		R6	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
*****				R7	1-216-051-00	METAL GLAZE 1.2K 5% 1/10W	
*A-1642-126-A E2 BOARD, COMPLETE (KV-S2941B)				R8	1-216-063-00	METAL GLAZE 3.9K 5% 1/10W	
*****				R9	1-216-045-00	METAL GLAZE 680 5% 1/10W	
<CAPACITOR>				R10	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
C1	1-126-103-11	ELECT 470MF 20% 16V		R11	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
C2	1-163-031-11	CERAMIC CHIP 0.01MF 50V		R12	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
C3	1-163-031-11	CERAMIC CHIP 0.01MF 50V		R13	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
C4	1-163-037-11	CERAMIC CHIP 0.022MF 10% 25V		R14	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
C5	1-163-237-11	CERAMIC CHIP 27PF 5% 50V		R16	1-216-037-00	METAL GLAZE 330 5% 1/10W	
C6	1-163-237-11	CERAMIC CHIP 27PF 5% 50V		R17	1-216-055-00	METAL GLAZE 1.8K 5% 1/10W	
C7	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V		R18	1-216-037-00	METAL GLAZE 330 5% 1/10W	
C8	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V		R19	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
C9	1-163-125-00	CERAMIC CHIP 220PF 5% 50V		R20	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
C10	1-163-123-00	CERAMIC CHIP 180PF 5% 50V					
C11	1-163-105-00	CERAMIC CHIP 33PF 5% 50V					
C12	1-163-121-00	CERAMIC CHIP 150PF 5% 50V					
C13	1-163-133-00	CERAMIC CHIP 470PF 5% 50V					
C14	1-124-903-11	ELECT 1MF 20% 50V					

VM

H1

REF.NO. PART NO.

DESCRIPTION

REMARK

REF.NO. PART NO.

DESCRIPTION

REMARK

\*\*\*\*\*

\*A-1644-048-A VM BOARD, COMPLETE  
\*\*\*\*\*

## &lt;CAPACITOR&gt;

C1701	1-124-119-00	ELECT	330MF	20%	16V
C1704	1-161-830-00	CERAMIC	0.0047MF		500V
C1705	1-124-120-11	ELECT	220MF	20%	16V
C1706	1-123-935-00	ELECT	33MF	20%	160V
C1707	1-124-907-11	ELECT	10MF	20%	50V
C1708	1-163-075-00	CERAMIC CHIP	0.047MF		50V
C1709	1-108-792-11	MYLAR	0.001MF	10%	50V
C1710	1-137-036-91	FILM	0.01MF	10%	250V
C1711	1-162-318-11	CERAMIC	0.001MF	10%	500V
C1712	1-124-799-11	ELECT	2.2MF	20%	160V
C1713	1-162-318-11	CERAMIC	0.001MF	10%	500V
C1714	1-137-036-91	FILM	0.01MF	10%	250V
C1716	1-124-907-11	ELECT	10MF	20%	50V
C1717	1-102-824-00	CERAMIC	470PF	5%	50V
C1718	1-124-120-11	ELECT	220MF	20%	16V
C1719	1-124-907-11	ELECT	10MF	20%	50V
C1722	1-102-980-00	CERAMIC	270PF	10%	50V

## &lt;CONNECTOR&gt;

CN1819\*1-568-880-51 PIN, CONNECTOR 5P  
CN1830\*1-568-878-51 PIN, CONNECTOR 3P

## &lt;DIODE&gt;

D1701	8-719-914-43	DIODE DAN202K
D1702	8-719-914-43	DIODE DAN202K
D1703	8-719-914-44	DIODE DAP202K
D1704	8-719-982-37	DIODE MTZJ-39C
D1705	8-719-982-37	DIODE MTZJ-39C
D1706	8-719-914-44	DIODE DAP202K
D1707	8-719-914-44	DIODE DAP202K

## &lt;JUMPER RESISTOR&gt;

JR1701	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR1702	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR1703	1-216-296-91	METAL GLAZE	0	5%	1/8W
JR1751	1-216-296-91	METAL GLAZE	0	5%	1/8W

## &lt;COIL&gt;

L1702	1-408-410-00	INDUCTOR	12UH
-------	--------------	----------	------

## &lt;TRANSISTOR&gt;

Q1701	8-729-901-59	TRANSISTOR BF199
Q1702	8-729-216-22	TRANSISTOR 2SA1162-G
Q1703	8-729-017-05	TRANSISTOR 2SA1837
Q1704	4-382-854-11	SCREW (M3X10), P, SW (+); Q1703
Q1704	8-729-920-74	TRANSISTOR 2SC2412K-QR
Q1705	8-729-017-06	TRANSISTOR 2SC4793
Q1705	4-382-854-11	SCREW (M3X10), P, SW (+); Q1705
Q1706	8-729-920-74	TRANSISTOR 2SC2412K-QR
Q1707	8-729-142-86	TRANSISTOR 2SC3733
Q1708	8-729-901-59	TRANSISTOR BF199

Q1709 8-729-255-12 TRANSISTOR 2SC2551-0

## &lt;RESISTOR&gt;

R1701	1-247-807-31	CARBON	100	5%	1/4W
R1702	1-249-413-11	CARBON	470	5%	1/4W
R1703	1-247-807-31	CARBON	100	5%	1/4W
R1704	1-249-418-11	CARBON	1.2K	5%	1/4W
R1705	1-247-736-11	CARBON	56	5%	1/2W F
R1706	1-249-414-11	CARBON	560	5%	1/4W F
R1707	1-249-411-11	CARBON	330	5%	1/4W
R1709	1-249-412-11	CARBON	390	5%	1/4W
R1710	1-249-385-11	CARBON	2.2	5%	1/4W F
R1711	1-249-432-11	CARBON	18K	5%	1/4W
R1712	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R1713	1-249-436-11	CARBON	39K	5%	1/4W
R1714	1-249-429-11	CARBON	10K	5%	1/4W
R1715	1-216-476-11	METAL OXIDE	180	5%	3W F
R1716	1-249-417-11	CARBON	1K	5%	1/4W F
R1717	1-249-432-11	CARBON	18K	5%	1/4W
R1718	1-249-412-11	CARBON	390	5%	1/4W
R1719	1-249-416-11	CARBON	820	5%	1/4W
R1720	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R1721	1-249-414-11	CARBON	560	5%	1/4W
R1722	1-249-385-11	CARBON	2.2	5%	1/4W F
R1723	1-249-429-11	CARBON	10K	5%	1/4W
R1724	1-249-436-11	CARBON	39K	5%	1/4W
R1725	1-249-413-11	CARBON	470	5%	1/4W
R1726	1-249-410-11	CARBON	270	5%	1/4W
R1727	1-249-402-11	CARBON	56	5%	1/4W F
R1729	1-216-451-11	METAL OXIDE	120	5%	2W F
R1731	1-249-420-11	CARBON	1.8K	5%	1/4W
R1732	1-249-426-11	CARBON	5.6K	5%	1/4W
R1735	1-249-415-11	CARBON	680	5%	1/4W
R1736	1-247-807-31	CARBON	100	5%	1/4W
R1753	1-249-418-11	CARBON	1.2K	5%	1/4W

\*\*\*\*\*

\*A-1646-055-A H1 BOARD, COMPLETE  
\*\*\*\*\*

1-562-837-11 JACK

## &lt;TERMINAL BLOCK&gt;

J81 1-568-678-11 TERMINAL BLOCK, S 3P

## &lt;CAPACITOR&gt;

C081	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
C082	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
C083	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C087	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V

## &lt;CONNECTOR&gt;

CN1008\*1-564-513-11 PLUG, CONNECTOR 10P  
CN1051\*1-568-879-11 PIN, CONNECTOR 4P

## &lt;JUMPER RESISTOR&gt;

JR1 1-216-295-00 METAL GLAZE 0 5% 1/10W

H1

H2

J

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<COIL>				C426	1-124-477-11	ELECT 47MF	20% 16V
L081	1-408-409-00	INDUCTOR 10UH		C427	1-164-346-11	CERAMIC CHIP 1MF	16V
L082	1-408-409-00	INDUCTOR 10UH		C428	1-164-346-11	CERAMIC CHIP 1MF	16V
<RESISTOR>				C429	1-124-119-00	ELECT 330MF	20% 16V
R081	1-216-073-00	METAL GLAZE 10K 5% 1/10W		C901	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V
R082	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W		C902	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V
R083	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W		C904	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
R084	1-216-202-00	METAL GLAZE 1.5K 5% 1/8W		C905	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
R085	1-216-202-00	METAL GLAZE 1.5K 5% 1/8W		C906	1-101-004-00	CERAMIC 0.01MF	50V
<SWITCH>				C907	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
S081	1-571-532-21	SWITCH, TACTIL		C908	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
S082	1-571-532-21	SWITCH, TACTIL		C909	1-101-004-00	CERAMIC 0.01MF	50V
S083	1-571-532-21	SWITCH, TACTIL		C910	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
*****				C911	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
*A-1646-056-A		H2 BOARD, COMPLETE		C912	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
		*****		C913	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
*4-374-987-01		GUIDE, LIGHT		C914	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
4-381-686-01		BRACKET (B), LIGHT GUIDE		C915	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
<CONNECTOR>				C916	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V
CN1132	1-564-511-11	PLUG, CONNECTOR 8P		C917	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V
<DIODE>				C918	1-163-121-00	CERAMIC CHIP 150PF	5% 50V
D092	8-719-948-31	DIODE LD-201VR		C919	1-163-121-00	CERAMIC CHIP 150PF	5% 50V
	*4-201-076-01	HOLDER, LED; D092		C920	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V
D093	8-719-948-31	DIODE LD-201VR		C921	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V
D094	8-719-948-31	DIODE LD-201VR		C922	1-124-477-11	ELECT 47MF	20% 16V
<IC>				C923	1-164-346-11	CERAMIC CHIP 1MF	16V
IC091	8-741-101-75	IC SBX1610-11		C924	1-124-477-11	ELECT 47MF	20% 16V
<RESISTOR>				C925	1-124-477-11	ELECT 47MF	20% 16V
R091	1-216-190-00	METAL GLAZE 470 5% 1/8W		C926	1-164-346-11	CERAMIC CHIP 1MF	16V
*****				C928	1-124-477-11	ELECT 47MF	20% 16V
*A-1651-060-A		J BOARD, COMPLETE		C929	1-124-477-11	ELECT 47MF	20% 16V
		*****		C930	1-124-477-11	ELECT 47MF	20% 16V
<CAPACITOR>				C931	1-164-346-11	CERAMIC CHIP 1MF	16V
C270	1-163-063-00	CERAMIC CHIP 0.022MF	50V	C932	1-164-346-11	CERAMIC CHIP 1MF	16V
C271	1-163-063-00	CERAMIC CHIP 0.022MF	50V	C933	1-124-477-11	ELECT 47MF	20% 16V
C295	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C935	1-124-477-11	ELECT 47MF	20% 16V
C296	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C936	1-164-346-11	CERAMIC CHIP 1MF	16V
C298	1-101-005-00	CERAMIC 0.022MF	50V	C937	1-164-346-11	CERAMIC CHIP 1MF	16V
C401	1-164-005-11	CERAMIC CHIP 0.47MF	16V	C938	1-124-477-11	ELECT 47MF	20% 16V
C402	1-126-101-11	ELECT 100MF	20% 16V	C1301	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C403	1-164-005-11	CERAMIC CHIP 0.47MF	16V	C1302	1-126-101-11	ELECT 100MF	20% 16V
C410	1-124-917-11	ELECT 33MF	20% 50V	C1303	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C421	1-124-910-11	ELECT 47MF	20% 50V	C1304	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C422	1-124-910-11	ELECT 47MF	20% 50V	C1305	1-163-105-00	CERAMIC CHIP 33PF	5% 50V
C423	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C1306	1-163-109-00	CERAMIC CHIP 47PF	5% 50V
C424	1-163-129-00	CERAMIC CHIP 330PF	5% 50V	C1307	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C425	1-163-129-00	CERAMIC CHIP 330PF	5% 50V	C1309	1-163-101-00	CERAMIC CHIP 22PF	5% 50V
				C1310	1-126-101-11	ELECT 100MF	20% 16V
				C1311	1-163-038-00	CERAMIC CHIP 0.1MF	25V
				C1312	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
				C1313	1-124-917-11	ELECT 33MF	20% 50V
				C1318	1-124-910-11	ELECT 47MF	20% 50V
				C1319	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
				C1320	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
				C1321	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
				C1322	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
				C1323	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
				C1324	1-126-101-11	ELECT 100MF	20% 16V
				C1325	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
				C1326	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
				C1327	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
				C1328	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
				C1329	1-163-038-00	CERAMIC CHIP 0.1MF	25V

J

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C1330	1-163-038-00	CERAMIC CHIP 0.1MF	25V				
C1331	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V			<IC>	
C1332	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	IC401	8-752-067-28	IC CXA1545AS	
C1333	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	IC402	8-759-073-00	IC TEA2114	
C1336	1-163-249-11	CERAMIC CHIP 82PF	5% 50V	IC1301	8-752-357-88	IC CXD2024Q-TL	
C1337	1-163-257-11	CERAMIC CHIP 180PF	5% 50V			<JACK>	
C1338	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V	J901	1-695-296-11	TERMINAL BLOCK, S	
C1339	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V	J903	1-695-550-11	SOCKET 21P	
C1340	1-124-910-11	ELECT 47MF	20% 50V	J904	1-695-296-11	TERMINAL BLOCK, S	
C1344	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	J905	1-695-293-11	SOCKET 21P	
C1408	1-163-101-00	CERAMIC CHIP 22PF	5% 50V	J906	1-695-296-11	TERMINAL BLOCK, S	
		<CONNECTOR>		J907	1-695-293-11	SOCKET 21P	
CN1208*1-564-525-11	PLUG, CONNECTOR 10P					<JUMPER RESISTOR>	
CN1209 1-695-301-11	CONNECTOR, BOARD TO BOARD 40P			JR291	1-216-295-00	METAL GLAZE 0 5% 1/10W	
CN1210*1-564-522-11	PLUG, CONNECTOR 7P			JR292	1-216-295-00	METAL GLAZE 0 5% 1/10W	
CN1233*1-564-518-11	PLUG, CONNECTOR 3P			JR293	1-216-295-00	METAL GLAZE 0 5% 1/10W	
		<DIODE>		JR401	1-216-295-00	METAL GLAZE 0 5% 1/10W	
D401	8-719-921-69	DIODE NTZJ-9.1		JR402	1-216-295-00	METAL GLAZE 0 5% 1/10W	
D403	8-719-921-69	DIODE NTZJ-9.1		JR403	1-216-295-00	METAL GLAZE 0 5% 1/10W	
D405	8-719-921-69	DIODE NTZJ-9.1		JR404	1-216-295-00	METAL GLAZE 0 5% 1/10W	
D406	8-719-921-69	DIODE NTZJ-9.1		JR405	1-216-295-00	METAL GLAZE 0 5% 1/10W	
D407	8-719-921-69	DIODE NTZJ-9.1		JR406	1-216-295-00	METAL GLAZE 0 5% 1/10W	
D901	8-719-921-69	DIODE NTZJ-9.1				<COIL>	
D902	8-719-921-69	DIODE NTZJ-9.1		L291	1-402-711-11	INDUCTOR, WIDEBAND	
D903	8-719-921-69	DIODE NTZJ-9.1		L292	1-402-711-11	INDUCTOR, WIDEBAND	
D904	8-719-921-69	DIODE NTZJ-9.1		L293	1-402-711-11	INDUCTOR, WIDEBAND	
D905	8-719-921-69	DIODE NTZJ-9.1		L1301	1-408-405-00	INDUCTOR 4.7UH	
D906	8-719-921-69	DIODE NTZJ-9.1		L1302	1-408-403-00	INDUCTOR 3.3UH	
D907	8-719-921-69	DIODE NTZJ-9.1		L1303	1-408-405-00	INDUCTOR 4.7UH	
D908	8-719-921-69	DIODE NTZJ-9.1		L1304	1-408-405-00	INDUCTOR 4.7UH	
D909	8-719-921-69	DIODE NTZJ-9.1		L1306	1-408-405-00	INDUCTOR 4.7UH	
D910	8-719-921-69	DIODE NTZJ-9.1		L1307	1-410-431-11	INDUCTOR 100UH	
D911	8-719-921-69	DIODE NTZJ-9.1		L1308	1-410-428-21	INDUCTOR 56UH	
D913	8-719-921-69	DIODE NTZJ-9.1				<TRANSISTOR>	
D914	8-719-921-69	DIODE NTZJ-9.1		Q401	8-729-920-74	TRANSISTOR 2SC2412K-QR	
D915	8-719-921-69	DIODE NTZJ-9.1		Q402	8-729-920-74	TRANSISTOR 2SC2412K-QR	
D916	8-719-921-69	DIODE NTZJ-9.1		Q403	8-729-920-74	TRANSISTOR 2SC2412K-QR	
D917	8-719-921-69	DIODE NTZJ-9.1		Q404	8-729-920-74	TRANSISTOR 2SC2412K-QR	
D919	8-719-921-69	DIODE NTZJ-9.1		Q1301	8-729-216-22	TRANSISTOR 2SA1162-G	
D920	8-719-921-69	DIODE NTZJ-9.1		Q1302	8-729-216-22	TRANSISTOR 2SA1162-G	
D921	8-719-921-69	DIODE NTZJ-9.1		Q1303	8-729-216-22	TRANSISTOR 2SA1162-G	
D922	8-719-921-69	DIODE NTZJ-9.1		Q1304	8-729-920-74	TRANSISTOR 2SC2412K-QR	
D923	8-719-921-69	DIODE NTZJ-9.1		Q1305	8-729-920-74	TRANSISTOR 2SC2412K-QR	
D924	8-719-921-69	DIODE NTZJ-9.1		Q1306	8-729-920-74	TRANSISTOR 2SC2412K-QR	
D925	8-719-921-69	DIODE NTZJ-9.1		Q1307	8-729-216-22	TRANSISTOR 2SA1162-G	
D926	8-719-921-69	DIODE NTZJ-9.1		Q1308	8-729-216-22	TRANSISTOR 2SA1162-G	
D927	8-719-921-69	DIODE NTZJ-9.1		Q1309	8-729-920-74	TRANSISTOR 2SC2412K-QR	
D928	8-719-921-69	DIODE NTZJ-9.1		Q1311	8-729-920-74	TRANSISTOR 2SC2412K-QR	
D930	8-719-921-69	DIODE NTZJ-9.1		Q1312	8-729-216-22	TRANSISTOR 2SA1162-G	
D931	8-719-921-69	DIODE NTZJ-9.1		Q1313	8-729-920-74	TRANSISTOR 2SC2412K-QR	
D932	8-719-921-69	DIODE NTZJ-9.1		Q1314	8-729-216-22	TRANSISTOR 2SA1162-G	
D1301	8-719-914-43	DIODE DAN202K		Q1315	8-729-216-22	TRANSISTOR 2SA1162-G	
		<FILTER>				<RESISTOR>	
FL1301	1-236-620-11	FILTER, LOW PASS		R291	1-216-190-00	METAL GLAZE 470 5% 1/8W	
FL1302	1-236-620-11	FILTER, LOW PASS					
FL1303	0-552-483-00	BPF					
FL1303	1-239-930-11	FILTER, BAND PASS					
FL1304	1-236-164-11	ENCAPSULATED COMPONENT					

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R292	1-216-190-00	METAL GLAZE	470 5% 1/8W	R938	1-216-039-00	METAL GLAZE	390 5% 1/10W
R297	1-216-296-91	METAL GLAZE	0 5% 1/8W	R939	1-216-039-00	METAL GLAZE	390 5% 1/10W
R298	1-216-296-91	METAL GLAZE	0 5% 1/8W	R940	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W
R402	1-216-158-00	METAL GLAZE	22 5% 1/8W	R941	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R403	1-216-025-00	METAL GLAZE	100 5% 1/10W	R942	1-216-039-00	METAL GLAZE	390 5% 1/10W
R404	1-216-158-00	METAL GLAZE	22 5% 1/8W	R943	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R405	1-216-025-00	METAL GLAZE	100 5% 1/10W	R944	1-216-039-00	METAL GLAZE	390 5% 1/10W
R406	1-216-158-00	METAL GLAZE	22 5% 1/8W	R945	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R407	1-216-025-00	METAL GLAZE	100 5% 1/10W	R946	1-216-022-00	METAL GLAZE	75 5% 1/10W
R410	1-216-025-00	METAL GLAZE	100 5% 1/10W	R948	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R411	1-216-025-00	METAL GLAZE	100 5% 1/10W	R949	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R412	1-216-022-00	METAL GLAZE	75 5% 1/10W	R950	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W
R413	1-216-022-00	METAL GLAZE	75 5% 1/10W	R951	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W
R414	1-216-022-00	METAL GLAZE	75 5% 1/10W	R952	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R416	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R953	1-216-039-00	METAL GLAZE	390 5% 1/10W
R417	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R954	1-216-039-00	METAL GLAZE	390 5% 1/10W
R419	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R955	1-216-039-00	METAL GLAZE	390 5% 1/10W
R420	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R956	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R421	1-216-171-00	METAL GLAZE	75 5% 1/8W	R957	1-216-039-00	METAL GLAZE	390 5% 1/10W
R422	1-216-093-00	METAL GLAZE	68K 5% 1/10W	R958	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R423	1-216-015-00	METAL GLAZE	39 5% 1/10W	R959	1-216-674-11	METAL CHIP	9.1K 0.50% 1/10W
R424	1-216-025-00	METAL GLAZE	100 5% 1/10W	R960	1-216-674-11	METAL CHIP	9.1K 0.50% 1/10W
R425	1-216-025-00	METAL GLAZE	100 5% 1/10W	R961	1-216-674-11	METAL CHIP	9.1K 0.50% 1/10W
R428	1-249-393-11	CARBON	10 5% 1/4W F	R967	1-216-171-00	METAL GLAZE	75 5% 1/8W
R429	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R968	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
R430	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R969	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
R431	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R970	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
R432	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R971	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
R433	1-216-296-91	METAL GLAZE	0 5% 1/8W	R972	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
R901	1-216-039-00	METAL GLAZE	390 5% 1/10W	R973	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
R902	1-216-039-00	METAL GLAZE	390 5% 1/10W	R974	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
R903	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R975	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R904	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R976	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
R905	1-216-039-00	METAL GLAZE	390 5% 1/10W	R977	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
R906	1-216-039-00	METAL GLAZE	390 5% 1/10W	R1301	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R907	1-216-171-00	METAL GLAZE	75 5% 1/8W	R1302	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
R908	1-216-171-00	METAL GLAZE	75 5% 1/8W	R1303	1-216-043-00	METAL GLAZE	560 5% 1/10W
R909	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R1304	1-216-043-00	METAL GLAZE	560 5% 1/10W
R910	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W	R1305	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R911	1-216-022-00	METAL GLAZE	75 5% 1/10W	R1306	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R913	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	R1307	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R914	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	R1308	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R915	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R1309	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
R916	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R1310	1-216-295-00	METAL GLAZE	0 5% 1/10W
R917	1-216-171-00	METAL GLAZE	75 5% 1/8W	R1311	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R919	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	R1312	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W
R920	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	R1313	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R921	1-216-022-00	METAL GLAZE	75 5% 1/10W	R1314	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R922	1-216-222-00	METAL GLAZE	10K 5% 1/8W	R1315	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R923	1-216-039-00	METAL GLAZE	390 5% 1/10W	R1316	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R924	1-216-039-00	METAL GLAZE	390 5% 1/10W	R1317	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R925	1-216-089-91	METAL GLAZE	47K 5% 1/10W	R1318	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W
R926	1-216-039-00	METAL GLAZE	390 5% 1/10W	R1319	1-216-043-00	METAL GLAZE	560 5% 1/10W
R927	1-216-039-00	METAL GLAZE	390 5% 1/10W	R1320	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R928	1-216-089-91	METAL GLAZE	47K 5% 1/10W	R1321	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R929	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	R1322	1-216-025-00	METAL GLAZE	100 5% 1/10W
R930	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R1324	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
R931	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	R1325	1-216-043-00	METAL GLAZE	560 5% 1/10W
R932	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R1326	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R933	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1327	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R934	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	R1328	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R935	1-216-022-00	METAL GLAZE	75 5% 1/10W	R1329	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R936	1-216-171-00	METAL GLAZE	75 5% 1/8W	R1330	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
R937	1-216-113-00	METAL GLAZE	470K 5% 1/10W				

J

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R1332	1-216-653-11	METAL CHIP	1.2K 0.50% 1/10W			REMOTE COMMANDER	
R1333	1-216-666-11	METAL CHIP	4.3K 0.50% 1/10W				
R1334	1-216-636-11	METAL CHIP	240 0.50% 1/10W				
R1335	1-216-637-11	METAL CHIP	270 0.50% 1/10W				
R1336	1-216-657-11	METAL CHIP	1.8K 0.50% 1/10W				
R1337	1-216-663-11	METAL CHIP	3.3K 0.50% 1/10W				
R1338	1-216-657-11	METAL CHIP	1.8K 0.50% 1/10W				
R1339	1-216-295-00	METAL GLAZE	0 5% 1/10W				
R1342	1-216-295-00	METAL GLAZE	0 5% 1/10W				
R1344	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W				
R1345	1-216-045-00	METAL GLAZE	680 5% 1/10W				
R1346	1-216-039-00	METAL GLAZE	390 5% 1/10W				
R1347	1-216-041-00	METAL GLAZE	470 5% 1/10W				
R1349	1-216-041-00	METAL GLAZE	470 5% 1/10W				
R1350	1-216-081-00	METAL GLAZE	22K 5% 1/10W				
R1351	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
R1352	1-216-295-00	METAL GLAZE	0 5% 1/10W				
R1353	1-216-037-00	METAL GLAZE	330 5% 1/10W				
R1354	1-216-031-00	METAL GLAZE	180 5% 1/10W				
R1355	1-216-043-00	METAL GLAZE	560 5% 1/10W				
R1356	1-216-049-00	METAL GLAZE	1K 5% 1/10W				
R1357	1-216-033-00	METAL GLAZE	220 5% 1/10W				
R1358	1-216-033-00	METAL GLAZE	220 5% 1/10W				
R1359	1-216-043-00	METAL GLAZE	560 5% 1/10W				

MISCELLANEOUS  
\*\*\*\*\*

- $\Delta$  1-406-807-11 COIL, DEMAGNETIZATION  
 $\Delta$  1-452-509-12 NECK ASSY, PICTURE TUBE (NA-308)  
 1-504-121-21 SPEAKER (SQUAWKER) (5CM)  
 1-504-145-11 SPEAKER (12CM)  
 $\Delta$  1-751-680-11 CORD, POWER (WITH NOISE FILTER) 2.5A/  
 250V (KV-S2941A, S2941B, S2941D,  
 S2943E, S2941K)  
 $\Delta$  1-590-762-11 CORD, POWER (WITH PLUG) 2.5A/250V  
 (KV-S2942U)  
 $\Delta$  8-451-444-11 DEFLECTION YOKE Y29GXC (MTY)  
 V901  $\Delta$  8-733-841-05 PICTURE TUBE 29GX (M68KZT10X)

ACCESSORIES AND PACKING MATERIALS  
\*\*\*\*\*

- \*4-039-906-01 BAG, PROTECTION  
 \*4-202-105-01 CUSHION (LOWER) (ASSY)  
 \*4-202-106-01 CUSHION (UPPER) (ASSY)  
 \*4-202-117-01 INDIVIDUAL CARTON  
 4-202-137-01 DOOR, REAR  
 4-202-615-11 BROAD SHEET, SERVICE  
 4-202-687-41 MANUAL, INSTRUCTION (KV-S2941A)  
 4-202-687-51 MANUAL, INSTRUCTION (KV-S2941B)  
 4-202-687-11 MANUAL, INSTRUCTION (KV-S2941D)  
 4-202-687-81 MANUAL, INSTRUCTION (KV-S2943E)  
 4-202-687-91 MANUAL, INSTRUCTION (KV-S2941K)  
 4-202-687-61 MANUAL, INSTRUCTION (KV-S2942U)

Sony Corporation  
 Consumer A&V Products Company  
 TV & Display Products Div.

9-964-982-01

English  
 94DE0968-1  
 Printed in Japan  
 © 1994.4